La energía de la naturaleza

FICHAS TECNICAS EQUIPOS

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GEMKS Inverter Plus

Remote Control Panel

- Pure sine wave inverter
- Built-in MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power Auto
- restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start funtion
- Optional Remote Control Panel avaiable

inverter / charger

GEMKS Inverter Selection Guide

MODEL	GEMKS 2K-24 Plus	GEMKS 2K-48 Plus	GEMKS 3K-24 Plus	GEMKS 3K-48 Plus
Rated Power	2000VA	2000VA	3000VA	3000VA
INPUT				
Voltage	120 VACV or 230 VAC		230 VAC	
Selectable Voltage Range	95-140 VAC or 170-280 VAC (For Personal Computers) 65-140 VAC or 90-280 VAC (For Home Appliances)		170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)			
OUTPUT				
AC Voltage Regulation (Batt. Mode)	110/120 VAC + 5% (User selectable) or 230VAC + 5%		230VAC + 5%	
Surge Power	4000VA		6000VA	
E ciency (Peak)	96%			
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)			
Waveform	Pure sine wave			
BATTERY				
Battery Voltage	24 VDC	48 VDC	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC	27 VDC	54 VDC
Overcharge Protection	31 VDC	62 VDC	31 VDC	60 VDC
SOLAR CHAGER & AC CHARGER				
Maximum PV Array Power	1500 W	3000 W	1500 W	3000 W
MPPT Range @ Operating Voltage	30~ 115 VDC or 60~ 115 VDC	60~ 115 VDC	30~ 115 VDC or 60~ 115 VDC	60~ 115 VDC
Maximum PV Array Open Circuit Voltage	145 VDC			
Maximum Solar Charge Current	60A			
Maximum AC Charge Current	20A or 20A / 30A	10A or 10A / 15A	20A / 30A	10A / 15A
Maximum E ciency	98%			
Standby Power Consumption	2W			
PHYSICAL				
Dimension, D x W x H (mm)	140 x 295 x 479			
Net Weight (kgs)	11.5			
OPERATING ENVIRONMENT				
Humidity	5% to 95% Relative Humidity(Non-condensing)			
Operating Temperature	0ºC - 55ºC			
Storage Temperature	-15ºC - 60ºC			

Product specif i cations are subject to change without further notice

GELA GS Inverter

- Pure sine wave inverter
- Isolation design between input and output for safety guarantee
- Lightweight, stainless steel, and anodised aluminium casing
- Low power consumption for energy saving
- Over-temperature, DC reverse polarity and short circuit protection
- Low/High battery alarm and protection

DC/AC inverter without charger

GELA GS Inverter Selection Guide

MODEL	GELA GS 2K	GELA GS 3K
Rated Power	2000VA/1600W	3000VA/2400W
INPUT		
Nominal DC Voltage	24 VDC	
Cold Start Voltage	23 VDC	
Acceptable Voltage Range	21 VDC ~ 29 VDC	
Low DC Warning Voltage @ load <20% @ 20% ≦ load < 50% @ load ≧ 50%	 22.0 VDC 21.4 VDC 20.2 VDC	
Low DC Warning Return Voltage @ load <20% @ 20% ≦ load < 50% @ load ≧ 50%	 23.0 VDC 22.4 VDC 21.2 VDC	
Low DC Cut-off Voltage @ load <20% @ 20% ≦ load < 50% @ load ≧ 50%	 21.0 VDC 20.4 VDC 19.2 VDC	
Efficiency	> 90 %	
No Load Power Consumption	< 20 W	
Saving Mode Power Consumption	< 10 W	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	
Surge Power	4000VA	6000VA
Waveform	Pure sine wave	
PHYSICAL		
Dimension, D X W X H (mm)	82 x 232 x 369	
Net Weight (kgs)	4.3	4.3
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	0°C - 55°C	
Storage Temperature	-15°C - 60°C	

Product specifications are subject to change without further notice

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GELA Plus Duo Off-Grid Inverter

- Pure sine wave inverter
- Built-in 2 strings of MPPT solar charge controller
- Enhanced AC charger to 60A
- Wide battery input range
- Selectable input voltage range for home appliances and personal computers
- Selectable high power charging current
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Optional SNMP card

GELA Plus Duo Off-Grid Inverter Selection Guide

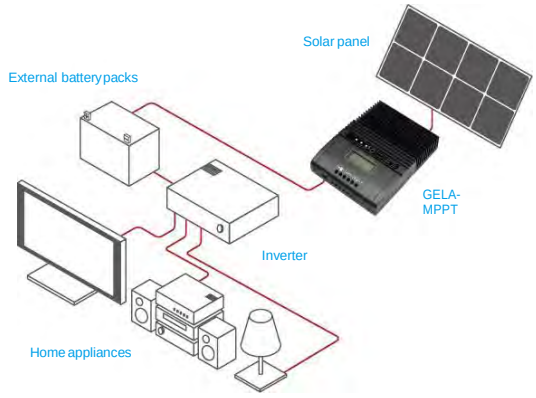
MODEL	GELA Plus Duo 1.5K-12	GELA Plus Duo 1.5K-48	GELA Plus Duo 3K-24	GELA Plus Duo 3K-48
Rated Power	1500VA/1200W		3000VA/2400W	
INPUT				
Voltage	230 VAC			
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)			
Frequency Range	50 Hz/60 Hz (Auto sensing)			
OUTPUT				
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%			
Surge Power	3000VA		6000VA	
Efficiency (Peak)	90% ~ 93%			
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)			
Waveform	Pure sine wave			
BATTERY & AC CHARGER				
Battery Voltage	12 VDC	48 VDC	24 VDC	48 VDC
Floating Charge Voltage	13.5 VDC	54 VDC	27 VDC	54 VDC
Overcharge Protection	16 VDC	62 VDC	32 VDC	62 VDC
Maximum Charge Current	60A			
SOLAR CHARGER				
Maximum PV Array Power (2-MPPT tracker)	1000W	2000W	2000W	2000 W
MPPT Range @ Operating Voltage	15~80 VDC	60 ~ 90 VDC	30~80 VDC	60 ~ 90 VDC
Maximum PV Array Open Circuit Voltage	100 VDC			
Maximum Solar Charge Current	80A	40A	80A	40A
Maximum Efficiency	98%			
PHYSICAL				
Dimension, D x W x H (mm)	124 x 272 x 400			
Net Weight (kgs)	8.0			
OPERATING ENVIRONMENT				
Humidity	5% to 95% Relative Humidity(Non-condensing)			
Operating Temperature	-20°C to 55°C			
Storage Temperature	-30°C to 60°C			

Product specifications are subject to change without further notice

Gela Solar Charge Controller

- Intelligent Maximum Power Point Tracking technology
- Built-in DSP controller with high performance
- Automatic battery voltage detection (Only for 600W and 3KW)
- Battery temperature sensor (BTS) automatically provides temperature compensation (Only for 3KW)
- Three-stage charging optimizes battery performance
- Auto load-detection
- Multifunction LCD displays detailed information
- Reverse polarity protection for solar panel and battery
- Overcharge and overload protection
- Suitable for different battery types

Standalone Solar Power System:



Combined MPPT technology and DSP controller, GELA-MPPT will convert best voltage to charge battery based on varied temperature. Compared to traditional solar charge controller, it allows your solar panels to operate at their optimum power output voltage, providing higher efficiency up to 98% with lower power loss.

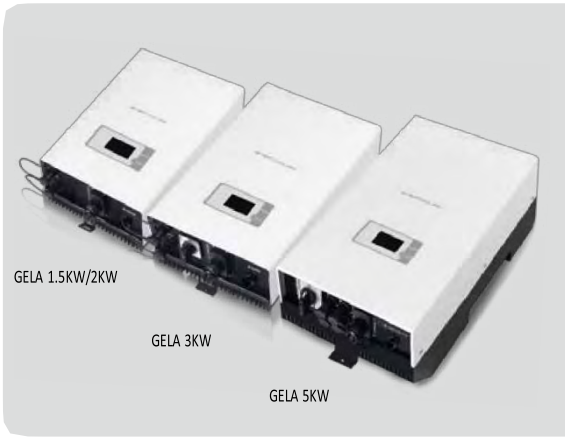
Integrated GELA-MPPT with inverter, solar panel, and external battery packs, it will become a standalone solar power system to generate green power for your home appliances. GELA-MPPT will convert solar power to charge external batteries, and then provide power to home appliances via inverter.

GELA MPPT Solar Charge Controller Selection Guide

MODEL	GELA-MPPT 300W	GELA- MPPT 600W		GELA -MPPT 850W	GELA-MPPT 3KW		
INPUT							
MPPT Range @ Operating Voltage	15 VDC ~ 33 VDC	15 VDC ~ 33 VDC	30 VDC ~ 66 VDC	45 VDC ~ 88 VDC	60 VDC ~ 115 VDC		
Maximum PV Array Open Circuit Voltage	50 VDC	50 VDC	75 VDC	98VDC	145VDC		
Maximum PV Array Power	300 W	300 W	600 W	850 W	800W	1600W	3200W
Maximum Current	18 A			17A	50 A		
OUTPUT							
Nominal Battery Voltage	12 VDC	12 VDC	24 VDC	36 VDC	12 VDC	24 VDC	48 VDC
Connected Battery Type	Sealed lead acid, vented, Gel, NiCd battery				Sealed lead acid, AGM or Gel		
Maximum Charging Current	25 A			20A	60 A		
Maximum Efficiency	98%						
Charging Method	Three stages: bulk, absorption, and floating						
PROTECTION							
Overload Protection	> 110% : audible alarm						
Overcharge Protection	Yes						
Polarity Reversal Protection @ Solar Cell & Battery	Yes						
INDICATORS							
LCD Panel	LCD panel indicating solar power, load level, battery voltage/capacity, charging current, and fault conditions						
LED Display	Three indicators for solar, charging, and load status						
PHYSICAL							
Dimension, D x W x H (mm)	135 x 170 x 57.5	220 x 170 x 57.5			315 x 165 x 128		
Net Weight (Kgs)	0.92	1.85			4.5		
Type of Mechanical Protection	IP 43				IP 31		
ENVIRONMENT							
Humidity	0 ~ 100% RH (No condensing)				5 ~ 95% RH (No condensing)		
Operating Temperature	-20°C to 55°C				0°C to 55°C		
Storage Temperature	-40°C to 75°C				-15°C to 60°C		
Altitude	0 ~ 3000 m						

Product specifications are subject to change without further notice

GELA On-Grid Inverter



- 1.5KW/2KW/3KW/5KW on-grid PV inverter
- Advanced DSP control technology delivers accurate data
- Smart independent MPPTs to enhance overall efficiency
- Up to 96% high conversion efficiency
- Modulized design for easy maintenance
- Industrial-grade components used for robust operation
- Data log up to 15 years
- IP 65 protection for outdoor and harsh environment
- Free monitoring software

GELA On-Grid Inverter Selection Guide

MODEL	GELA 1.5KW	GELA 2KW	GELA 3KW	GELA 5KW
INPUT(DC)				
Max. DC Power	1650 W	2200 W	3300 W	5000 W
Maximum DC Voltage	450 VDC	500 VDC	500 VDC	500 VDC
MPP Voltage Range	150 VDC ~ 400 VDC	200 VDC ~ 450 VDC	250 VAC ~ 500 VDC	180 VDC ~ 500 VDC
Nominal DC Voltage	360 VDC		370 VDC	
Start-up Voltage / Initial Feeding Voltage	120VDC / 150VDC		125VDC / 150VDC	
Maximum Input Current	1 x 11A		1 x 13A	2 x 15A
Number of MPP Trackers / Strings per MPP Tracker	1 / A:1		1 / A:1	2 / A:1;B:1
OUTPUT(AC)				
AC Nominal Power	1500 W	2000 W	3000 W	4600 W
Maximum AC Apparent Power	1600 VA	2100 VA	3000 VA	4600 VA
Nominal AC Voltage	230 VAC			
AC Voltage Range	184-264 VAC*			
AC Grid Frequency	50 Hz / 60 Hz			
Nominal Output Current	6.6 A	8.7A	13 A	20 A
Power Factor @ Rated Power	> 0.99			
EFFICIENCY				
Maximum Efficiency	96%		97.0%	97.0%
European Efficiency @ Nominal Voltage & 100% Load	95%		96.0%	96.0%
PROTECTION				
DC Reverse-Polarity Protection	Yes			
Ground Fault Monitoring	Yes			
Grid Monitoring	Yes			
AC Short Circuit Protection	Yes			
Over Current Protection	30 A	30 A	30 A	50 A
PHYSICAL				
Dimension, DxWxH(mm)	136.5 x 268.5 x 410		160 x 270 x 450	182 x 308 x 515
Net Weight (kgs)	11.5	11.5	15.0	20.0
INTERFACE				
Intelligent Slot	USB & RS-232 card / Option: SNMP card and Modbus card			
ENVIRONMENT				
Humidity	0 ~ 100% RH (No condensing)			
Operating Temperature	-25°C to 60°C			
Altitude	0 ~ 1000 m**			
COMPLIANCE				
Standard	CE, VDE-AR-N 4105, VDE-0126-1-1, IEC62109			

*The AC Voltage Range may vary depending on different country grid standard
**Power derating 1% every 100 m when altitude is over 1000m.
Product specifications are subject to change without further notice.

CE VDE-AR-N 4105
VDE 0126-1-1

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Gela InfiniSolar: On-Grid Inverter with Energy Storage

Innovative and Cost-effective Power Solution

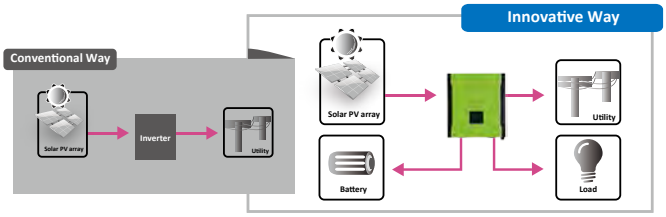
Gela InfiniSolar is a flexible and intelligent hybrid inverter which utilizes solar power, AC utility, and battery power source to supply continuous power. It's a simple and smart solar power storage system for home users to either store energy into battery and wait for night time usage or use for self-consumption first depending on demands. Priority for power source can be programmed and set up through smart software. During night time or power failure, it will automatically extract power from battery. In this way, it will reduce the dependence on the utility.

- On-Grid Inverter with Energy Storage
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable battery charging current suits different types of batteries
- Programmable multiple operations modes: Grid tie, Off grid, and grid-tie with backup
- Built-in timer for various mode of on/off operation
- Multiple communication for USB, RS-232, Modbus and SNMP
- Monitoring software for real time status display and control

Gela InfiniSolar 2KW/3KW Plus **Gela** InfiniSolar 5KW **Gela** InfiniSolar 3-phase 10KW

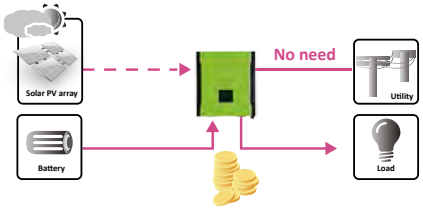
Feed-in is not only choice

In comparison with conventional grid-tie inverter, Gela InfiniSolar is able to not only feed- in power to grid but also store solar power to battery for future usage and directly power to the loads.



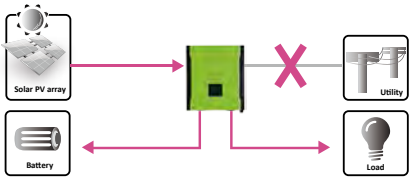
Save money by discharging battery for self-consumption first

Gela InfiniSolar can save money by using battery energy first when PV energy is low. Until battery energy is low, Gela InfiniSolar will extract AC power from the grid.



Power backup when AC failed

Gela InfiniSolar can operate as an off-grid inverter to provide continuous power even without the grid. It's perfect power solution for remote regions or temporary AC power source such as camping or flea market.



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Gela InfiniSolar On-grid Inverter with Energy Storage Selection Guide

MODEL	Gela InfiniSolar 2KW	Gela InfiniSolar Plus 3KW
PHASE	1-phase in / 1-phase out	
RATED OUTPUT POWER	2000 W	3000 W
MAXIMUM CHARGING POWER	1200 W	1200 W
GRID-TIE OPERATION		
PV INPUT (DC)		
Maximum PV Input Power	2250W	4500W
Nominal DC Voltage / Maximum DC Voltage	300 VDC / 350 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	80 VDC / 120 VDC	116 VDC / 150 VDC
MPP Voltage Range	150 VDC ~ 320 VDC	250 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 15 A	1 / 1 x 18 A
GRID OUTPUT (AC)		
Nominal Output Voltage	101/110/120/127 VAC	208/220/230/240 VAC
Output Voltage Range	88 - 127 VAC*	184 - 264.5 VAC*
Nominal Output Current	18 A	13 A
Power Factor	> 0.99	
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	95%	96%
European Efficiency@ Vnominal	94%	95%
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage/Auto Restart Voltage	60 - 70 VAC / 85 VAC	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	80 - 130 VAC	170 - 280 VAC
Maximum AC Input Current	30 A	
PV INPUT (DC)		
Maximum DC Voltage	350 VDC	500 VDC
MPP Voltage Range	150 VDC ~ 320 VDC	250 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 15 A	1 / 1 x 18 A
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	101/110/120/127 VAC	202/208/220/230/240 VAC
Output Waveform	Pure Sinewave	
Efficiency (DC to AC)	90%	93%
HYBRID OPERATION		
PV INPUT (DC)		
Nominal DC Voltage / Maximum DC Voltage	300 VDC / 350 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	80 VDC / 120 VDC	116 VDC / 150 VDC
MPP Voltage Range	150 VDC ~ 320 VDC	250 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 15 A	1 / 1 x 18 A
GRID OUTPUT (AC)		
Nominal Output Voltage	101/110/120/127 VAC	202/208/220/230/240 VAC
Output Voltage Range	88-127 VAC*	184 - 264.5 VAC*
Nominal Output Current	18 A	13 A
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	60 - 70 VAC / 85 VAC	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	80 - 130 VAC	170 - 280 VAC
Maximum AC Input Current	30 A	
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	101/110/120/127 VAC	202/208/220/230/240 VAC
Efficiency (DC to AC)	90%	93%
BATTERY & CHARGER		
Nominal DC Voltage	48 VDC	
Maximum Charging Current	Default 25A, 5A - 25A (Adjustable)	
GENERAL		
PHYSICAL		
Dimension, D X W X H (mm)	107 x 438 x 480	
Net Weight (kgs)	15.5	
INTERFACE		
Communication Port	RS-232/USB	
Intelligent Slot	Optional SNMP, Modbus, and AS-400 cards available	
ENVIRONMENT		
Humidity	0 ~ 90% RH (No condensing)	
Operating Temperature	0 to 40°C	0 to 40°C
Altitude	0 ~ 1000 m**	

*These figures may vary depending on different AC voltage and country requirements.
**Power derating 1% every 100 m when altitude is over 1000m.
Product specifications are subject to change without further notice.

CE VDE-AR-N 4105
VDE 0126-1-1
AS4777, AS/NZS3100
NRS-097-2-1

On-Grid Inverter with Energy Storage

Gela Inifinisolar On-grid Inverter with Energy Storage Selection Guide

MODEL	Gela InfiniSolar 5KW
PHASE	1-phase in / 1-phase out
RATED OUTPUT POWER	5000 W
MAXIMUM CHARGING POWER	4800 W
GRID-TIE OPERATION	
PV INPUT (DC)	
Maximum PV Input Power	10000W
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	200 VDC / 250 VDC
MPP Voltage Range	250 VDC ~ 850 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 10.0A
GRID OUTPUT (AC)	
Nominal Output Voltage	230 VAC
Output Voltage Range	184 - 265 VAC*
Nominal Output Current	21 A
Power Factor	> 0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	> 96%
European Efficiency@ Vnominal	> 95%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage/Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	170 - 280 VAC
Maximum AC Input Current	40A (Include Loads and Charging)
PV INPUT (DC)	
Maximum DC Voltage	900 VDC
MPP Voltage Range / Full Load MPP Voltage Range	350 VDC ~ 850 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 10.0A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC
Output Waveform	Pure Sinewave
Efficiency (DC to AC)	91%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range /	350 VDC ~ 850 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 10.0A
GRID OUTPUT (AC)	
Nominal Output Voltage	230 VAC
Output Voltage Range	184 - 265 VAC*
Nominal Output Current	21A
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	170 - 280 VAC
Maximum AC Input Current	40A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC
Efficiency (DC to AC)	91%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Charging Current	Default 60A, 5A - 60A (Adjustable)
GENERAL	
PHYSICAL	
Dimension, D X W X H (mm)	522 x 500 x 167.5
Net Weight (kgs)	40
INTERFACE	
Communication Port	RS-232/USB
Intelligent Slot	Optional SNMP, Modbus, and AS-400 cards available
ENVIRONMENT	
Humidity	0 ~ 90% RH (No condensing)
Operating Temperature	-10 to 55°C
Altitude	0 ~ 1000 m*

*These figures are based on VDE-4105 standard. All figures may vary depending on different AC voltage and country requirements.
*Power derating 1% every 100 m when altitude is over 1000m
Product specifications are subject to change without further notice.

CE VDE-AR-N 4105
VDE 0126-1-1

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Gela Inifinisolar Three Phase On-grid Inverter with Energy Storage Selection Guide

MODEL	Gela InfiniSolar Three Phase 10KW
PHASE	3-phase in / 3-phase out
RATED OUTPUT POWER	10000 W
MAXIMUM CHARGING POWER	9600 W
GRID-TIE OPERATION	
PV INPUT (DC)	
Maximum PV Input Power	14850W
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range / Full Load MPP Voltage Range	350 VDC ~ 850 VDC / 400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 18.6A
GRID OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC per phase
Nominal Output Current	14.5 A per phase
Power Factor	> 0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	> 96%
European Efficiency@ Vnominal	> 95%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage/Auto Restart Voltage	120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	40A
PV INPUT (DC)	
Maximum DC Voltage	900 VDC
MPP Voltage Range / Full Load MPP Voltage Range	350 VDC ~ 850 VDC / 400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 18.6A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Waveform	Pure Sinewave
Efficiency (DC to AC)	91%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range / Full Load MPP Voltage Range	350 VDC ~ 850 VDC / 400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 18.6A
GRID OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC per phase
Nominal Output Current	14.5 A per phase
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	40A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	91%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Charging Current	Default 60A, 10A - 200A (Adjustable)
GENERAL	
PHYSICAL	
Dimension, D X W X H (mm)	622 x 500 x 167.5
Net Weight (kgs)	45
INTERFACE	
Communication Port	RS-232/USB and CAN Interface
Intelligent Slot	Optional SNMP, Modbus, and AS-400 cards available
ENVIRONMENT	
Humidity	0 ~ 90% RH (No condensing)
Operating Temperature	-10 to 55°C
Altitude	0 ~ 1000 m*

*Power derating 1% every 100 m when altitude is over 1000m
Product specifications are subject to change without further notice.

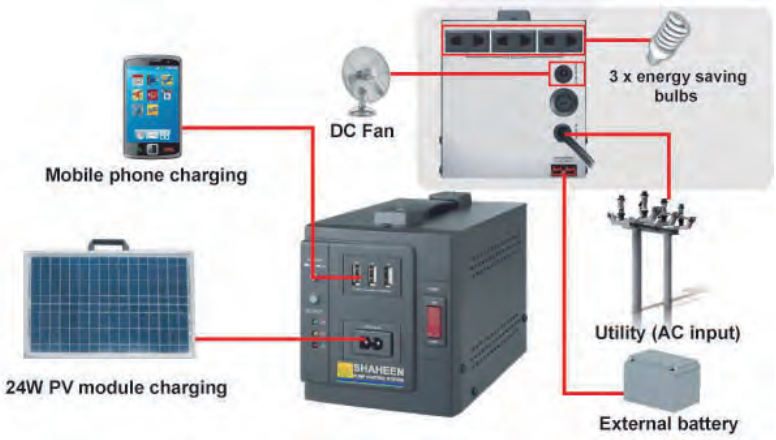
CE VDE-AR-N 4105
VDE 0126-1-1

On-Grid Inverter with Energy Storage

GelaPalm Lighting Solution

- 70W DC UPS
- 3 sets DC-powered outlets for energy saving bulbs
- 1 x 12V DC output connector for DC fan
- Accept either PWM solar charger ports for mobile phones
- Optional 3 x 5V USB charger ports for mobile phones
- Off mode charging
- Overload protection in battery mode and short circuit protection
- 3-step charging design for extended battery life
- Optional lamp holder with 2m cable

Devices:



GelaPalm Lighting Solution Specification

MODEL		GelaPalm
CAPACITY		70 W
PV INPUT		
Maximum PV Array Open Circuit Voltage		30 VDC
Maximum Solar Charging Current		2 A
AC INPUT		
Nominal Voltage		230 VAC
Nominal Frequency		50/60 Hz (Auto sensing)
OUTPUT		
2-pin Sockets	Output Voltage (AC Mode)	230 VDC
	Output Voltage (Batt. Mode)	160-230 VDC + 10%
	Wavefrom (Batt. Mode)	DC Output
DC Connector		12VDC 2A x 1 pc
USB Charger (option)		5VDC 1A x 3pcs
BATTERY & CHARGER		
Battery Type and Numbers		12V 7Ah x 1 (Optional external battery)
Battery Voltage		12 VDC
Floating Voltage		13.7V +1.5%
Shutdown Voltage		11V
Typical Recharge Time		8 hours recover to 90% capacity
Total Charging Current´		1 A or 2 A (Selectable)
PROTECTION		
Full Protection		Overload Protection and short circuit protection
PHYSICAL		
Dimension. D x W x H (mm)		229 x 110 x 123.5
Net Weight (kgs)		3.8
OPERATING ENVIRONMENT		
Humidity		0-90 % RH @ 0- 40ºC (non-condensing)
Noise Level		Less than 40dB

• Total charging current incluides solar charger and AC charger.
Product specifications are subject tochange whithout further notice

GELA NVSPY-P/M500 (500W)

GELA NVSPY-P/M500 (500W)

Description

Advantage :

1) Useful. With DC and AC output, supply power for light, vedio, fan, TV,computer, small household appliances etc .
2) Long working time . You can add battery according to your needs .
3) Efficiency. High efficiency for charging and discharging , with LCD display show its working state .
4) Maintenance free. Don’t need to maintain frequently.
5) Two ways charging . Can be charged from solar panel or state grid .

Operation :

1) Face solar panel to the Sun .
2) Connect the generator with solar panel and battery .
3) The LCD display will show the system working state .
4) Once battery is fully charged , controller will automatically protectect the system .
5) When the output overload or battery capacity inadequate, controller will cut off to protect .

Parameter:

Item No.:	GELA **NVSPY-M500**	**GELA NVSPY-P500**
System continuous Power	500W	
Surge Power	1000W	
Output Waveform	Modified Sine Wave	Pure Sine Wave
AC Output voltage	100-120V or 220-240V	
DC Output	12VDC *3	
USB Port	5V 500mA	
Efficiency	87~93%	
Anti-voltage protection	Fuse	
Frequency	50Hz/60Hz	
DC voltage range	10V-15.5V	
BAT.Low Voltage shutdown	<10V	
BAT. Low Voltage alarm	10V-11V	
Overload protection	600W	
Solar controller built-in	12V 20A	
Ambient temperature range	-25 ℃ ~ 60℃	
Protection	Bat.Low Voltage Alarm&Shutdown,Over-Load,Over Temperature,Over Charge ,Over discharge ,Short-Circuit,Reverse Polarity	
Accessories		QTY
1	MC4 connector with 5 meter solar cable	1 set
2	DC Cable Clips,Grounding wire	1 set
3	3W LED with 4meters cable and switch	Optional
4	10 types mobile charger	Optional
5	Adapter charger	Optional
Package		
Product Size	330 * 234 * 100mm	
Net Weight	4.5Kgs	
Q'ty/Ctn	4	
Packing	Gift box	
Carton Size /Weight	73.2*44.5*46CM , 24Kgs	
Certification	CE-EMC/LVD,RoHS	
Warranty	12 Month	

GELA NV-P300

GELA NV-P300

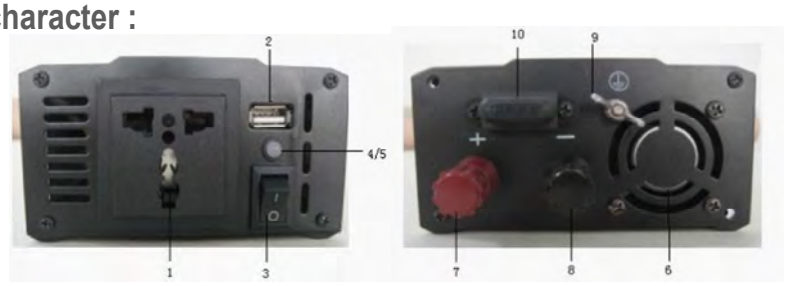
Description

Application:

1. Field operation : lighting, drilling, disaster relief, commercial promotions.
2. Hospital emergency rescue: surgical lighting, equipment use, etc.
3. Home Appliance: Electronic energy-saving fluorescent, incandescent, small television sets, refrigerator, etc.
4. Energe: solar system, wind system .

Conponents Display :

character :



1--- **AC output outlets** : can choose the socket type as you like .Output voltage 110V AC or 220V AC .
2---**USB port** : DC 5V , 500mA
3---**AC switch** : Enables output AC power at the AC outlets when switched ON.
4---**Green LED light** : indicates AC power is present at the AC outlets and the inverter is operating normally.
5---**Red LED light** : indicates inverter shutdown caused by low or high voltage, overload or excessive temperature .
6---**Thermovent** : with small fan built inside , can lower the temperature of inverter .
7----**Positive terminal** : connect with the positive (+） side of the battery .
8----**Negative terminal**: connect with the negative (-) side of the battery .
9----**Ground terminal** : connect to the ground , counseling electrical power .
10--- **Fuse** : can protect the inverter when the current is too excessive .

Auto protect functions:

These advanced safety features are built into the inverter. Electronic overload protection with automatic shutdown.
Built-in internal backup DC fuse provides added safety.
Low battery voltage warning followed by automatic shutdown.
High input voltage protection with automatic shutdown.
Over temperature protection with automatic shutdown.
Output short circuit protection.

Parameter :

Model	300W-121	300W-122	300W-241	300W-242
Rated Power	300W			
Peak Power	600W			
Input Voltage	12V		24V	
Output Voltage	110V	220V	110V	220V
Output waveform	pure sine wave			
Input voltage	12V/24V			
Output voltage	110-120V/220-240V AC			
Output frequency	50/60Hz ±3			
USB port	5V 500mA (optional)			
Optimum Efficiency	90 %			
No Load Current Draw	less than 0.2A			
Low Battery Alarm	DC 10.5~11.5V , 21.5~23V			
Auto Low Battery Shutdown	DC 9.5~10.5V, 20.5~22V			
Cooling Fan	single			
AC Receptacles	single			
Certification	CE , RoHS, FCC			
G.W	1.2KG			
Packing	15pcs/carton , 19kg			
Warranty	15 months			

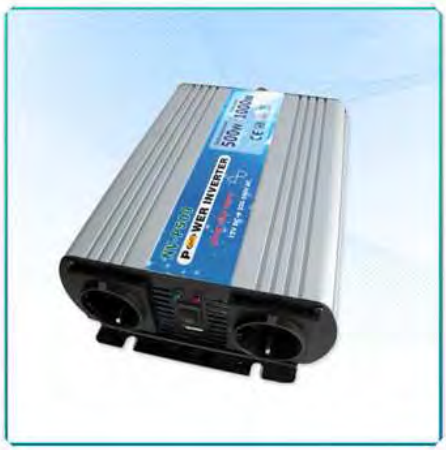
Caution :

1. Do not connect live AC power to the inverter's AC outlets. The inverter will be damaged even if it is switched off.
2. Do not expose the inverter to temperatures exceeding 104℉ (40℃)
3. Wrong rated DC input will not supply enough voltage or damage the inverter.
4. Any internal adjustment on the inverter is prohibit!
5. Do not use the inverter with the following equipment:

a. Small battery operated products such as rechargeable flashlights, rechargeable shavers, and night-lights that are plugged directly into an AC receptacle to recharge.

b. Certain battery chargers for battery pack used in hand powered tools. These chargers will have warning labels stating that dangerous voltages are present at the charger's battery terminals.

GELA V-P600>



GELA NV-P600

Description

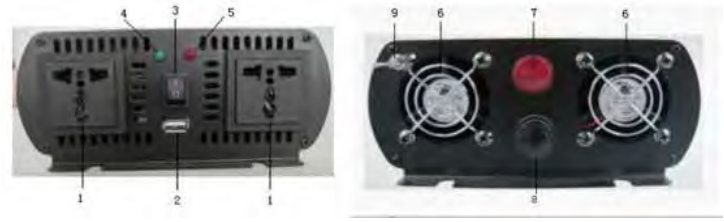
Application:

1. Field operation : lighting, drilling, disaster relief, commercial promotions.
2. Hospital emergency rescue: surgical lighting, equipment use, etc.
3. Home Appliance: Electronic energy-saving fluorescent, incandescent, small television sets, refrigerator, etc.
4. Energe: solar system, wind system .

Conponents Display :

A USA
B AUSTRALIA
C UNIVERSAL
D Europe·USA·Japan
E U.K
F FRANCE
G GERMANY
GFCI USA-GFCI
5V USB Port
battery clamp
aluminum alloy
grounding wire
protection function
overcharge,discharge,short circuit,overload,reverse polarity
fuse
when the current is too large,the fuse will play a protective role disconnect circuit,not to cause damage inside the inverter.Replaced a fuse can continue to allown the inverter work normal and stable
double fan
fan has low noise,low power consumption, long life,mute,cooling,let inverter charging process safety and efficiency, greatly improving the product service life and working efficiency

Character :



1--- **AC output outlets** : can choose the socket type as you like .Output voltage 110V AC or 220V AC .
2---**USB port** : DC 5V , 500mA
3---**AC switch** : Enables output AC power at the AC outlets when switched ON.
4---**Green LED light** : indicates AC power is present at the AC outlets and the inverter is operating normally.
5---**Red LED light** : indicates inverter shutdown caused by low or high voltage, overload or excessive temperature.
6----**Thermovent** : with small fan built inside , can lower the temperature of inverter .

7----**Positive terminal** : connect with the positive (+） side of the battery .
8----**Negative terminal**: connect with the negative (-) side of the battery .
9----**Ground terminal** : connect to the ground , counseling electrical power .
10--- **Fuse** : can protect the inverter when the current is too excessive .

Auto protect functions

These advanced safety features are built into the inverter. Electronic overload protection with automatic shutdown.
Built-in internal backup DC fuse provides added safety.
Low battery voltage warning followed by automatic shutdown.
High input voltage protection with automatic shutdown.
Over temperature protection with automatic shutdown.
Output short circuit protection.

Parameter :

Model	600-121	600-122	600-241	600-242
Rated Power	600W			
Peak Power	1200W			
Input Voltage	DC12V		DC24V	
Output Voltage	110V	220V	110V	220V
Output waveform	Pure Sine Wave			
Input voltage	12V/24V			
Output voltage	110-120V/220-240V AC			
Output frequency	50/60Hz ±3			
USB port	5V 500mA (optional)			
Optimum Efficiency	90 %			
No Load Current Draw	less than 0.5A (12V),less than 0.4A(24V)			
Low Battery Alarm	DC 10.5~11.5V , 21.5~23V			
Auto Low Battery Shutdown	DC 9.5~10.5V, 20.5~22V			
Cooling Fan	double			
AC Receptacles	double			
Certification	CE , RoHS, FCC			
N.W./unit	2.3kg			
Packing	10pcs/carton , Gift box			
Warranty	12 months			

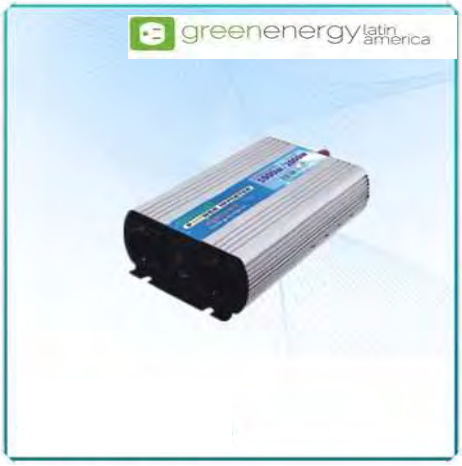
Caution :

1. Do not connect live AC power to the inverter's AC outlets. The inverter will be damaged even if it is switched off.
2. Do not expose the inverter to temperatures exceeding 104℉ (40℃)
3. Wrong rated DC input will not supply enough voltage or damage the inverter.
4. Any internal adjustment on the inverter is prohibit!
5. Do not use the inverter with the following equipment:

a. Small battery operated products such as rechargeable flashlights, rechargeable shavers, and night-lights that are plugged directly into an AC receptacle to recharge.

b. Certain battery chargers for battery pack used in hand powered tools. These chargers will have warning labels stating that dangerous voltages are present at the charger's battery terminals.

GELA NV-P1000



GELA NV-P1000

Description

Application:

1.Field operation : lighting, drilling, disaster relief, commercial promotions.
2.Hospital emergency rescue: surgical lighting, equipment use, etc.
3.Home Appliance: Electronic energy-saving fluorescent, incandescent, small television sets, refrigerator, etc.
4. Energe: solar system, wind system .

Components Display :

A
USA
B
AUSTRALIA
C
UNIVERSAL
D
E
U.K
F
FRANCE
G
GERMANY
GFCI
USA-GFCI
5V USB port
battery clamp
aluminum alloy
grounding wire
protect function
overcharge,discharge,short circuit,overload,reverse polarity
fuse
when the current is too large,the fuse will play a protective role disconnect circuit,not to cause damage inside the inverter.Replaced a fuse can continue to allown the inverter work normal and stable
double fan
fan has low noise,low power consumption, long life,mute,cooling,let inverter charging process safety and efficiency,greatly improving the product service life and working efficiencyinverter charging process safety and efficiency,greatly improving the product service life and working efficiency

Character:

1--- **AC output outlets** : can choose the socket type as you like .Output voltage 110V AC or 220V AC .
2---**USB port** : DC 5V , 500mA
3---**AC switch** : Enables output AC power at the AC outlets when switched ON.
4---**Green LED light** : indicates AC power is present at the AC outlets and the inverter is operating normally.
5----**Red LED light** : indicates inverter shutdown caused by low or high voltage, overload or excessive temperature.
6----**Thermovent** : with small fan built inside , can lower the temperature of inverter .
7----**Positive terminal** : connect with the positive (+） side of the battery .
8----**Negative terminal**: connect with the negative (-) side of the battery .
9----**Ground terminal** : connect to the ground , counseling electrical power .
10--- **Fuse** : can protect the inverter when the current is too excessive .

Parameter :

Model	1000-121	1000-122	1000-241	1000-242
Rated Power	1000W			
Peak Power	2000W			
Input Voltage	DC12V		DC24V	
Output Voltage	110V	220V	110V	220V
Output waveform	Pure Sine Wave			
Input voltage	12V/24V			
Output voltage	110-120V/220-240V AC			
Output frequency	50/60Hz ±3			
USB port	5V 500mA (optional)			
Optimum Efficiency	90 %			
No Load Current Draw	less than 0.8A (12V),less than 0.5A(24V)			
Low Battery Alarm	DC 10.5~11.5V , 21.5~23V			
Auto Low Battery Shutdown	DC 9.5~10.5V, 20.5~22V			
Cooling Fan	double			
AC Receptacles	double			
Certification	CE , RoHS, FCC			
N.W./unit	2.5kg			
Packing	10pcs/carton , Gift box			
Warranty	12 months			

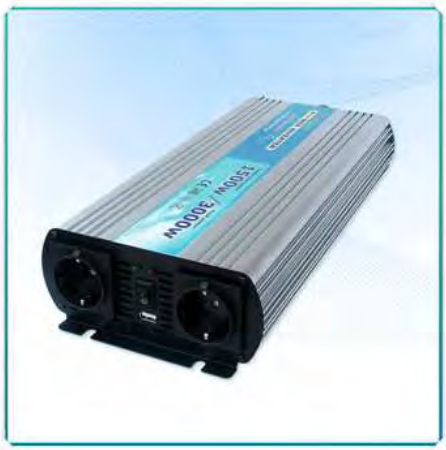
Caution :

1. Do not connect live AC power to the inverter's AC outlets. The inverter will be damaged even if it is switched off.
2. Do not expose the inverter to temperatures exceeding 104℉ (40℃)
3. Wrong rated DC input will not supply enough voltage or damage the inverter.
4. Any internal adjustment on the inverter is prohibit!
5. Do not use the inverter with the following equipment:

a. Small battery operated products such as rechargeable flashlights, rechargeable shavers, and night-lights that are plugged directly into an AC receptacle to recharge.

b. Certain battery chargers for battery pack used in hand powered tools. These chargers will have warning labels stating that dangerous voltages are present at the charger's battery terminals.

GELA NV-P1500



GELA NV-P1500

Description

Application:

1.Field operation : lighting, drilling, disaster relief, commercial promotions.
2.Hospital emergency rescue: surgical lighting, equipment use, etc.
3.Home Appliance: Electronic energy-saving fluorescent, incandescent, small television sets, refrigerator, etc.
4. Energe: solar system, wind system .

Components Display :

A USA
B AUSTRALIA
C UNIVERSAL
D Europe·USA·Japan
E U.K
F FRANCE
G GERMANY
GFCI USA-GFCI
5V USB Port
battery clamp
aluminum alloy
grounding wire
protection function
overcharge,discharge,short circuit,overload,reverse polarity
fuse
when the current is too large,the fuse will play a protective role disconnect circuit,not to cause damage inside the inverter.Replaced a fuse can continue to allown the inverter work normal and stable
double fan
fan has low noise,low power consumption, long life,mute,cooling,let inverter charging process safety and efficiency,greatly improving the product service life and working efficiency

Character:

1--- **AC output outlets** : can choose the socket type as you like .Output voltage 110V AC or 220V AC .
2---**USB port** : DC 5V , 500mA
3---**AC switch** : Enables output AC power at the AC outlets when switched ON.
4---**Green LED light** : indicates AC power is present at the AC outlets and the inverter is operating normally.
5----**Red LED light** : indicates inverter shutdown caused by low or high voltage, overload or excessive temperature.
6----**Thermovent** : with small fan built inside , can lower the temperature of inverter .
7----**Positive terminal** : connect with the positive (+） side of the battery .
8----**Negative terminal**: connect with the negative (-) side of the battery .
9----**Ground terminal** : connect to the ground , counseling electrical power .
10--- **Fuse** : can protect the inverter when the current is too excessive .

Parameter :

Model	1500-121	1500-122	1500-241	1500-242
Rated Power	1500W			
Peak Power	3000W			
Input Voltage	DC12V		DC24V	
Output Voltage	110V	220V	110V	220V
Output waveform	pure sine wave			
Input voltage	12V/24V			
Output voltage	110-120V/220-240V AC			
Output frequency	50/60Hz ±3			
USB port	5V 500mA (optional)			
Optimum Efficiency	90 %			
No Load Current Draw	less than 0.8A			
Low Battery Alarm	DC 10.5~11.5V , 21.5~23V			
Auto Low Battery Shutdown	DC 9.5~10.5V, 20.5~22V			
Cooling Fan	single			
AC Receptacles	double			
Certification	CE , RoHS, FCC			
G.W	4.2KG			

Caution :

1. Do not connect live AC power to the inverter's AC outlets. The inverter will be damaged even if it is switched off.
2. Do not expose the inverter to temperatures exceeding 104°F (40°C)
3. Wrong rated DC input will not supply enough voltage or damage the inverter.
4. Any internal adjustment on the inverter is prohibit!
5. Do not use the inverter with the following equipment:

a. Small battery operated products such as rechargeable flashlights, rechargeable shavers, and night-lights that are plugged directly into an AC receptacle to recharge.

b. Certain battery chargers for battery pack used in hand powered tools. These chargers will have warning labels stating that dangerous voltages are present at the charger's battery terminals.

GELA series

GELA-WVC295

- DC input voltage range：22-50VDC
- AC output voltage range：80-160VAC/180-260VAC
- AC output power ：260W
- AC frequency range：50Hz/60Hz
- G.W.：0.88KG
- Size：245mm*200mm*30mm

Enquiry

Description

GELA-WVC295 Series Micro Inverter

Output Power:260W;For Home Station,*MW Station,Low Cost,Easy Intallation,For Monocrystalline Silicon & Polycrystalline Silicon

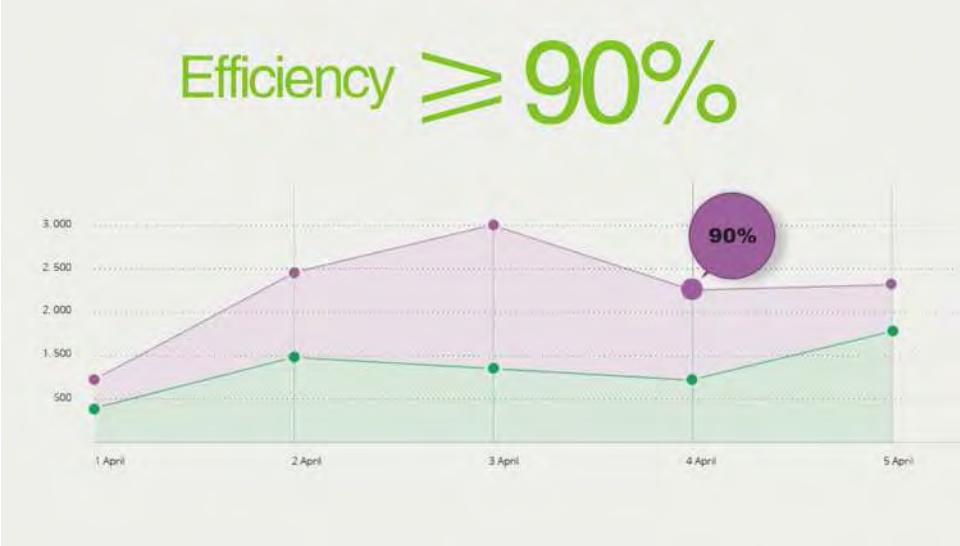
Product Description

GELA-WVC295 Series Using IP67 waterproof streamline design, Can effectively prevent rainwater on the surface erosion, Built-in high-performance Maximum Power Point Tracking(MPPT)Function,Better able to track changes in the solar luminosity and control different output power, Effectively capture and collect sunlight. AC electric power transmission using the reverse transmission technology, Is one of our patented technology, The inverter output power can provide load priority use, Extra electricity to the grid, Efficient use of the inverter to the power emitted, Electricity transmission rate of up to 99%.

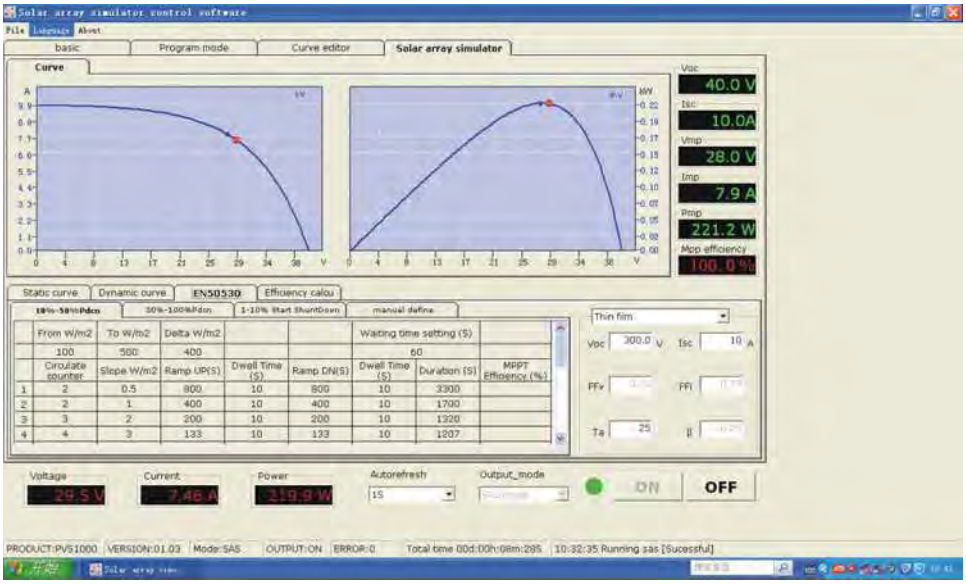
Product Features

Pure Sine Wave Output	High performance Maximum Power Point Tracking (MPPT)	Power Automatically Locked(APL)	Reverse power transmission
High-Frequency High Conversion Rate	Anti-Islanding Protect	Input /output is fully isolated to protect the electrical safety	Multiple parallel stacking
Power Line Communications	IP67 WaterProof	Intelligent Monitoring Systems	Smaller Size & Lighter Weight
The Leading Patent Technology	Flexible Installation	Simplify maintenance (user serviceable)	Installation and maintenance costs low

High Efficiency & Best Cost-Effectiveness



Intelligent MPPT & Weak Light Tracking Algorithm

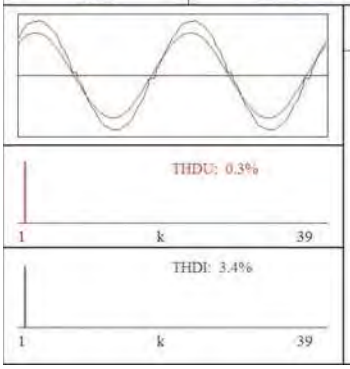


greenenergy latin america

Met The Grid Products Certification Standard

UI2010 Measure Report

Urms (V)	Irms (A)	P (W)	PF	Freq (Hz)
224.8	0.303	67.7	0.994	50.00



spectrum k	voltage %	current %	spectrum k	voltage %	current %
0	0.0	0.0	1	100.0	100.0
2	0.0	0.2	3	0.2	1.1
4	0.0	0.1	5	0.1	1.5
6	0.0	0.0	7	0.0	0.9
8	0.0	0.1	9	0.0	1.0
10	0.0	0.1	11	0.0	0.8
12	0.0	0.1	13	0.0	0.9
14	0.0	0.0	15	0.1	1.2
16	0.0	0.0	17	0.0	1.0
18	0.0	0.0	19	0.0	0.7
20	0.0	0.0	21	0.0	0.4
22	0.0	0.0	23	0.0	0.5
24	0.0	0.0	25	0.1	0.7
26	0.0	0.0	27	0.0	0.7
28	0.0	0.0	29	0.0	0.4
30	0.0	0.0	31	0.0	0.3
32	0.0	0.0	33	0.1	0.1
34	0.0	0.0	35	0.0	0.1
36	0.0	0.1	37	0.0	0.2
38	0.0	0.0	39	0.0	0.3

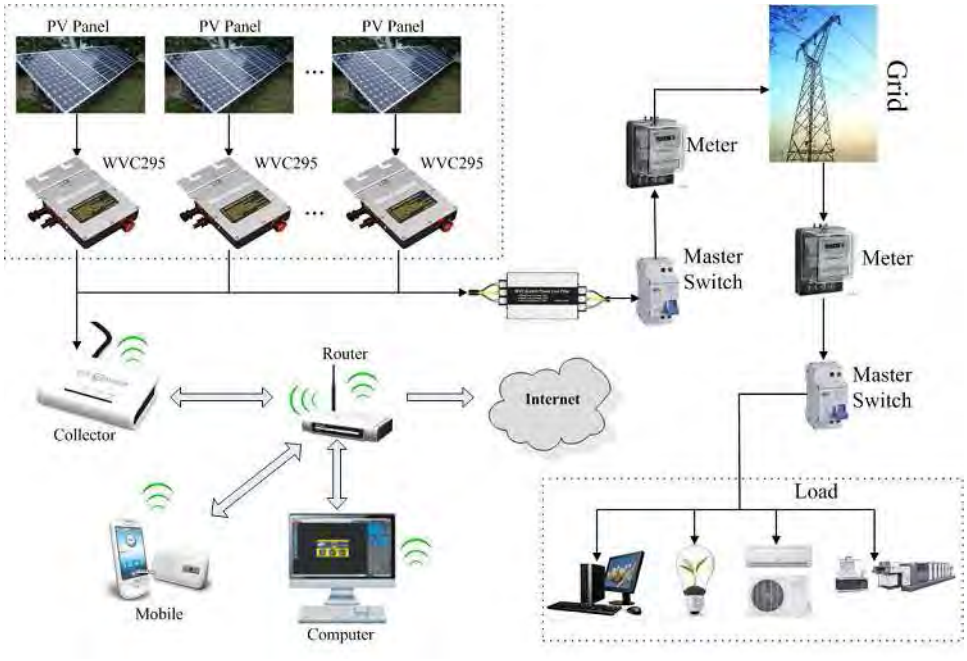
Product Parameters/Details

Input Data	**GELA-WVC295-120VAC/230VAC**
Recommended input power	200-300Watt
Recommend the use of PV modules	300W/Vmp>34V/Voc<50V
Maximum input DC voltage	50V
Peak power tracking voltage	25-40V
Operating Voltage Range	17-50V
Min / Max start voltage	22-50V
Maximum DC short current	15A
Maximum Input Current	9.8A

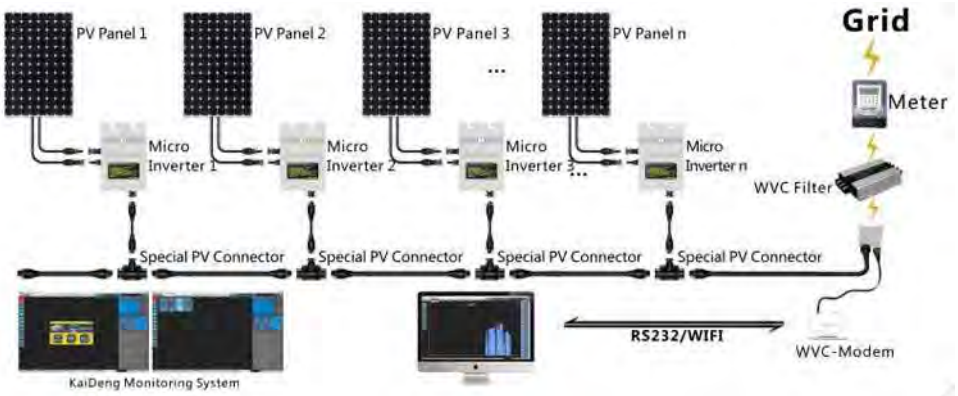
Output Data	**@120VAC**	**@230VAC**
Peak power output	260Watt	260Watt
Rated output power	250Watt	250Watt
Rated output current	2.08A	0.92A
Rated voltage range	80-160VAC	180-260VAC
Rated frequency range	57-62.5Hz	47-52.5Hz
Power factor	>96%	>96%
Maximum units per branch circuit	15PCS(Single-phase)	30PCS(Single-phase)
Output Efficiency	**@120VAC**	**@230VAC**
Static MPPT efficiency	99.5%	99.5%
Maximum output efficiency	94.6%	94.6%
Night time power consumption	<50mW Max	<70mW Max
THDI	<5%	<5%

Exterior	
Ambient temperature	-40°C to +60°C
Operating temperature range (inverter inside)	-40°C to +82°C
Dimensions (WxHxD)	195mm*130mm*32mm
Weight	0.65kg
Waterproof Rating	IP67
Cooling	Self-cooling
Feature	
Communication Mode	Power Line
Power transmission mode	Reverse transfer, load priority
Monitoring System	Lifetime free
Electromagnetic compatibility	EN50081.part1EN50082.part1
Grid disturbance	EN61000-3-2 Safety EN62109
Grid detection	DIN VDE 1026 UL1741
Certificate	CEC,CE National patent technology

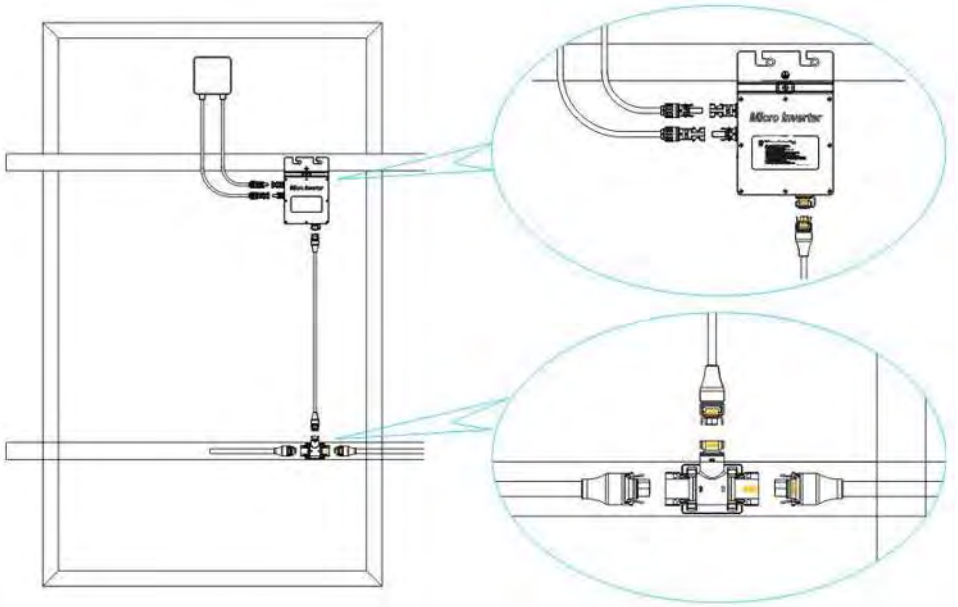
System Block Diagram & Application



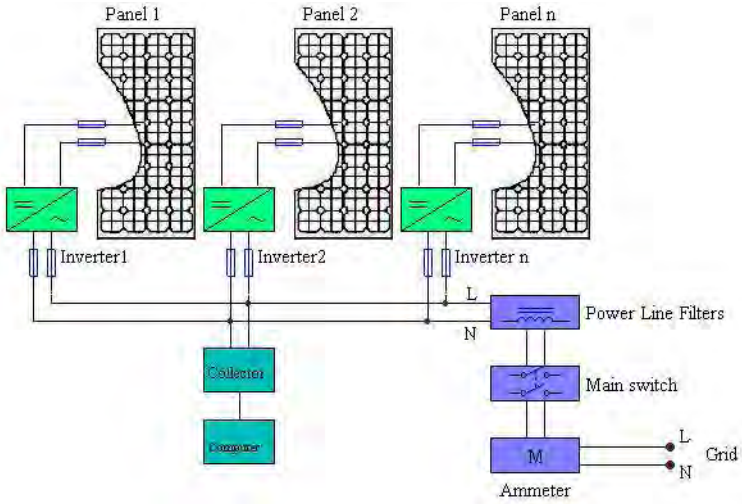
In order to achieve higher power, we can use this inverter in stack. For example: 10 pcs of 260W grid tie inverter used in stack can achieve 2600W. And the stacking number is unlimited.



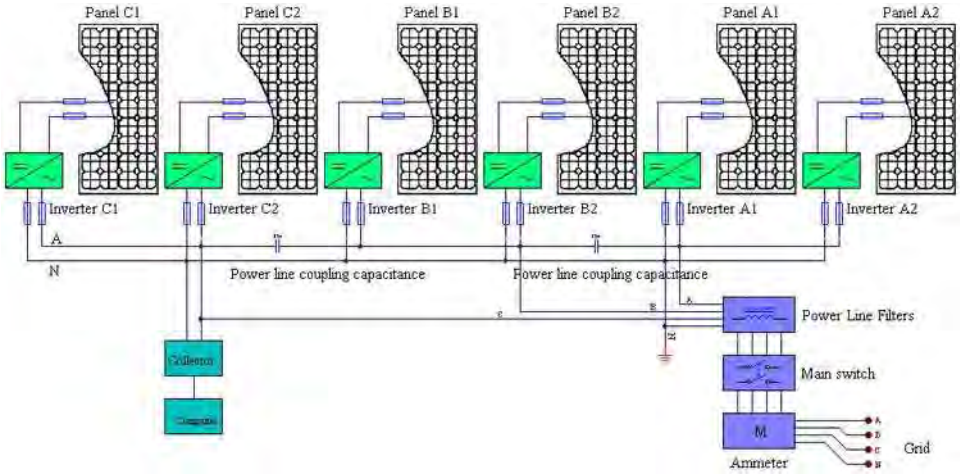
Easy Installation



Single-Phase & Three-Phase Electrical Schematics



Single-Phase



Three-Phase

Notes

- Please install the inverters according to the user manual and connnet the groud safety.
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Why Is The Micro Inverter

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7. Work required micro-inverter power increasingly smaller (only a few hundred watts), which can reduce the internal temperature and improve reliability.
8. Micro-inverter solar inverter system needs to deal with a lot of a particular power level, in order to increase production, thereby reducing costs.

Any Question,Please Feel Free To Contact Us.

GELA WVC series

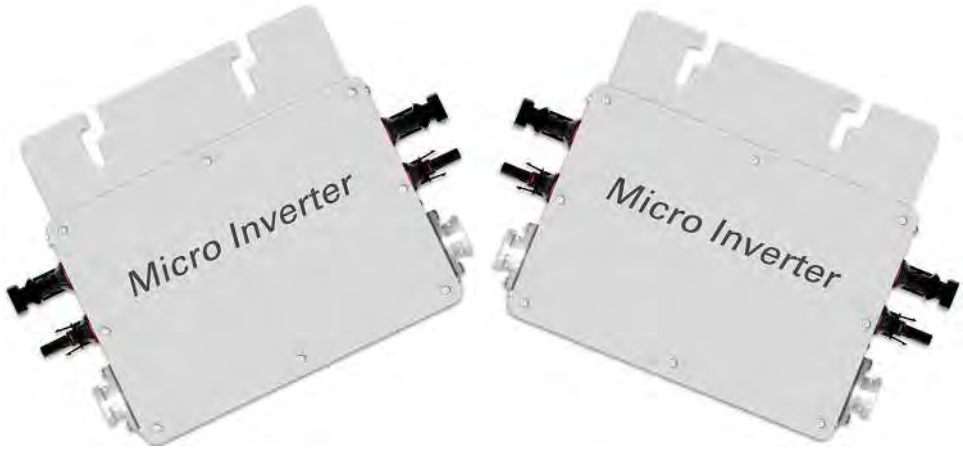
GELA-WVC600

- DC input voltage range：22-50VDC
- AC output voltage range：80-160VAC/180-260VAC
- AC output power ：600Wp
- AC frequency range：50Hz/60Hz
- G.W.：2.85kg
- Size：289mm*200mm*38mm

Enquiry

Description

GELA-WVC600 Series Micro Inverter



Output Power:600W;For Home Station,*MW Station,Low Cost,Easy Intallation,For Monocrystalline Silicon & Polycrystalline Silicon

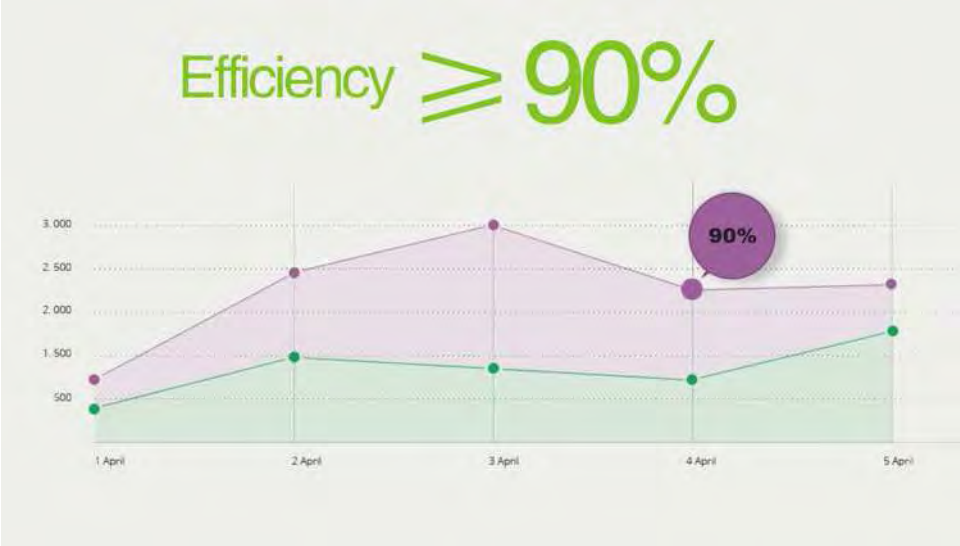
Product Description

GELA-WVC600 Series Using IP65 waterproof streamline design, Can effectively prevent rainwater on the surface erosion, Built-in high-performance Maximum Power Point Tracking(MPPT)Function,Better able to track changes in the solar luminosity and control different output power, Effectively capture and collect sunlight. AC electric power transmission using the reverse transmission technology, Is one of our patented technology, The inverter output power can provide load priority use, Extra electricity to the grid, Efficient use of the inverter to the power emitted, Electricity transmission rate of up to 99%.

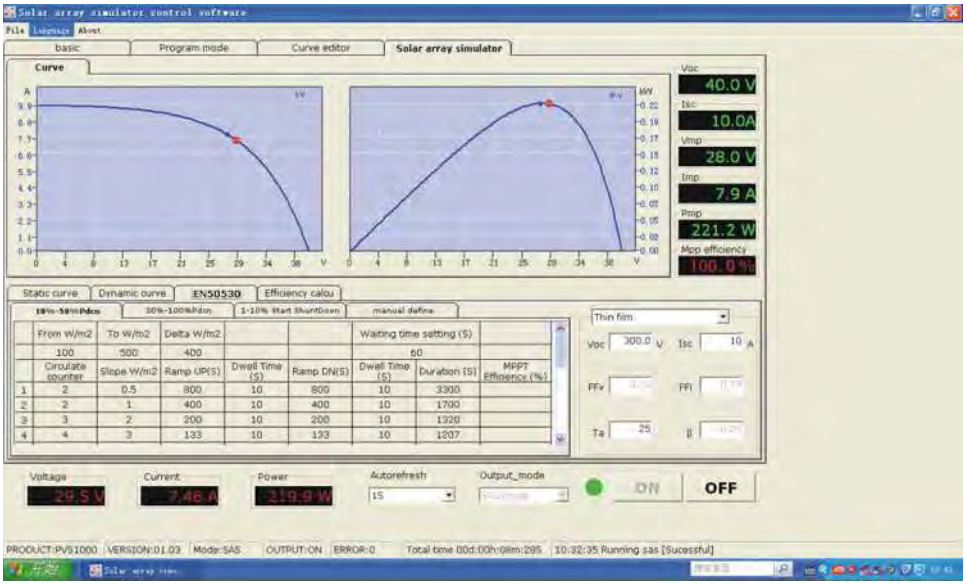
Product Features

Pure Sine Wave Output	High performance Maximum Power Point Tracking (MPPT)	Power Automatically Locked(APL)	Reverse power transmission
High-Frequency High Conversion Rate	Anti-Islanding Protect	Input /output is fully isolated to protect the electrical safety	Multiple parallel stacking
Power Line Communications	IP65 WaterProof	Intelligent Monitoring Systems	Smaller Size & Lighter Weight
The Leading Patent Technology	Flexible Installation	Simplify maintenance (user serviceable)	Installation and maintenance costs low

High Efficiency & Best Cost-Effectiveness



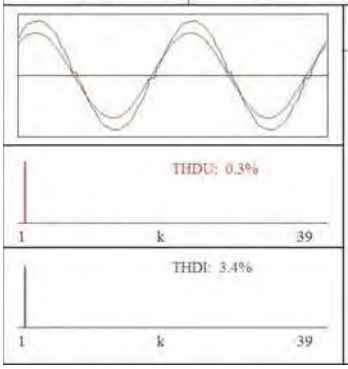
Intelligent MPPT & Weak Light Tracking Algorithm



Met The Grid Products Certification Standard

UI2010 Measure Report

Urms (V)	Irms (A)	P (W)	PF	Freq (Hz)
224.8	0.303	67.7	0.994	50.00



spectrum k	voltage %	current %	spectrum k	voltage %	current %
0	0.0	0.0	1	100.0	100.0
2	0.0	0.2	3	0.2	1.1
4	0.0	0.1	5	0.1	1.5
6	0.0	0.0	7	0.0	0.9
8	0.0	0.1	9	0.0	1.0
10	0.0	0.1	11	0.0	0.8
12	0.0	0.1	13	0.0	0.9
14	0.0	0.0	15	0.1	1.2
16	0.0	0.0	17	0.0	1.0
18	0.0	0.0	19	0.0	0.7
20	0.0	0.0	21	0.0	0.4
22	0.0	0.0	23	0.0	0.5
24	0.0	0.0	25	0.1	0.7
26	0.0	0.0	27	0.0	0.7
28	0.0	0.0	29	0.0	0.4
30	0.0	0.0	31	0.0	0.3
32	0.0	0.0	33	0.1	0.1
34	0.0	0.0	35	0.0	0.1
36	0.0	0.1	37	0.0	0.2
38	0.0	0.0	39	0.0	0.3

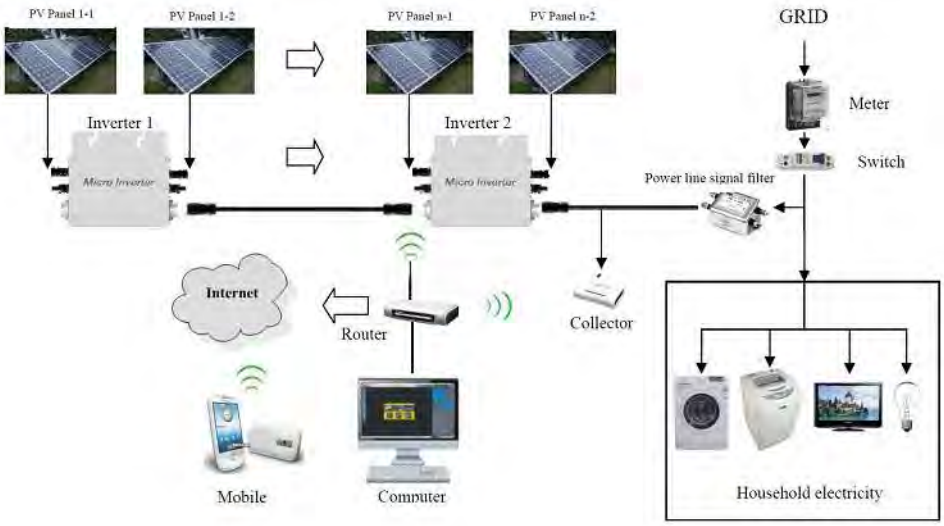
Product Parameters/Details

Input Data	**GELA-WVC600-120VAC/230VAC**
Recommended input power	600Watt
Recommend the use of PV modules	600W/Vmp>34V/Voc<50V
Maximum input DC voltage	50V
Peak power tracking voltage	22-45V
Operating Voltage Range	17-50V
Min / Max start voltage	22-50V
Maximum DC short current	40A
Maximum Input Current	25A

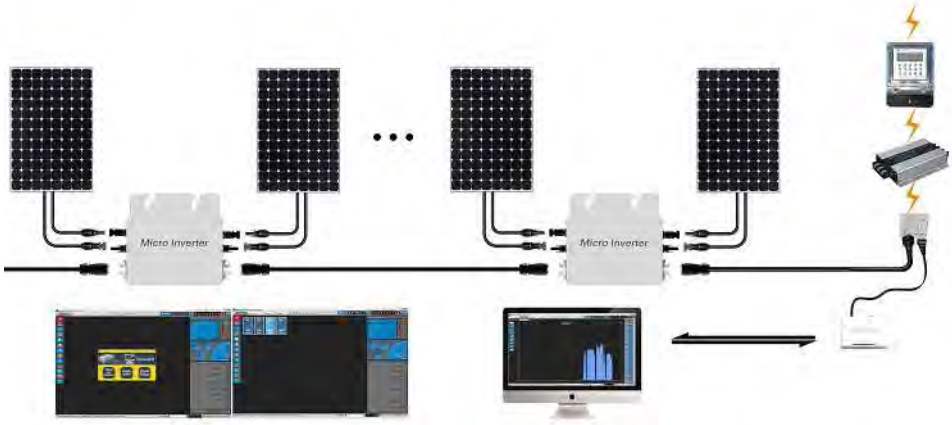
Output Data	**@120VAC**	**@230VAC**
Peak power output	600Watt	600Watt
Rated output power	550Watt	550Watt
Rated output current	4.58A	2.3A
Rated voltage range	80-160VAC	180-260VAC
Rated frequency range	57-62.5Hz	47-52.5Hz
Power factor	>98%	>98%
Maximum units per branch circuit	6PCS(Single-phase)	12PCS(Single-phase)
Output Efficiency	**@120VAC**	**@230VAC**
Static MPPT efficiency	99.5%	99.5%
Maximum output efficiency	90%	90%
The average efficiency	88%	88%
Night time power consumption	<50mW Max	<70mW Max
THDI	<5%	<5%

Exterior	
Ambient temperature	-40°C to +60°C
Operating temperature range (inverter inside)	-40°C to +82°C
Dimensions (WxHxD)	289mm*200mm*38mm
Weight	1.53kg
Waterproof Rating	IP65
Cooling	Self-cooling
Feature	
Communication Mode	Power Line
Power transmission mode	Reverse transfer, load priority
Monitoring System	Lifetime free
Electromagnetic compatibility	EN50081.part1EN50082.part1
Grid disturbance	EN61000-3-2 Safety EN62109
Grid detection	DIN VDE 1026 UL1741
Certificate	CEC,CE National patent technology

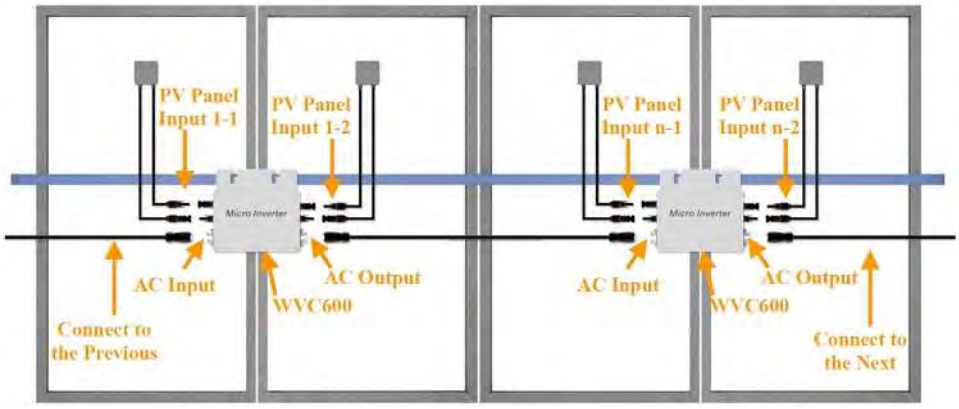
System Block Diagram & Application



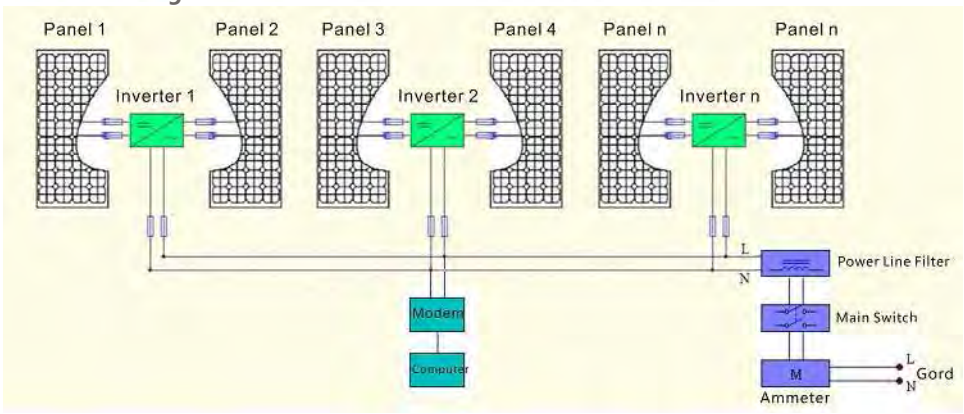
In order to achieve higher power, we can use this inverter in stack. For example: 10 pcs of WVC600 grid tie inverter used in stack can achieve 6000W. And the stacking number is unlimited.



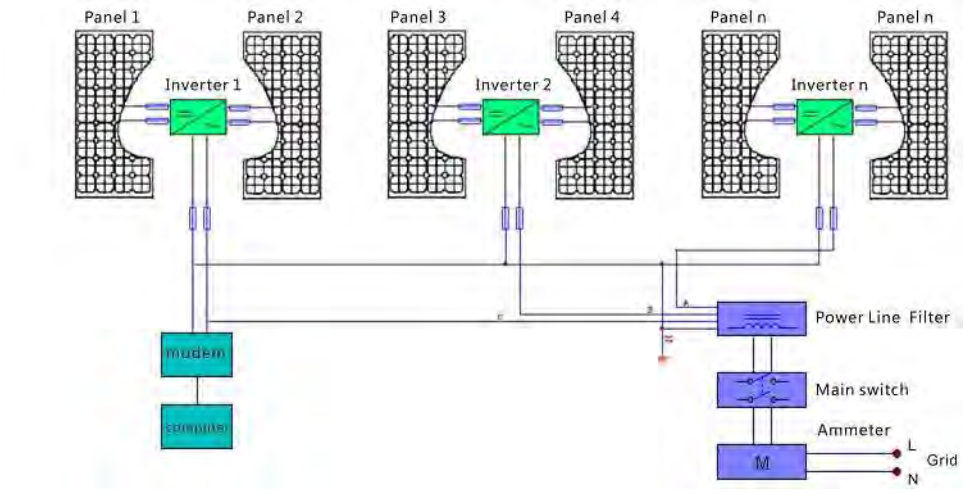
Easy Installation



Single-Phase & Three-Phase Electrical Schematics



Single-Phase



Three-Phase

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GELA WVC series

GELA KD-WVC1200

- DC input voltage range：22-50VDC
- AC output voltage range：80-160VAC/180-260VAC
- AC output power ：1200Wp
- AC frequency range：50Hz/60Hz
- G.W.：4.2KG
- Size：370MM*305MM*38MM

Enquiry

Description

GELA KD-WVC1200 Series Micro Inverter

Output Power:1200W;For Home Station,*MW Station,Low Cost,Easy Intallation,For Monocrystalline Silicon & Polycrystalline Silicon

Product Description

GELA KD-WVC1200 Series Using IP65 waterproof streamline design, Can effectively prevent rainwater on the surface erosion, Built-in high-performance Maximum Power Point Tracking(MPPT)Function,Better able to track changes in the solar luminosity and control different output power, Effectively capture and collect

sunlight. AC electric power transmission using the reverse transmission technology, Is one of our patented technology, The inverter output power can provide load priority use, Extra electricity to the grid, Efficient use of the inverter to the power emitted, Electricity transmission rate of up to 99%.

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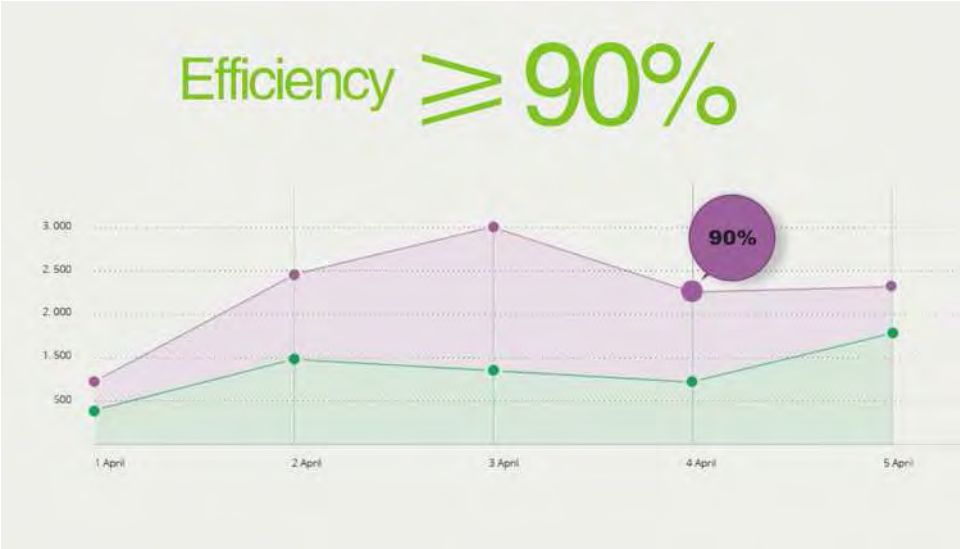
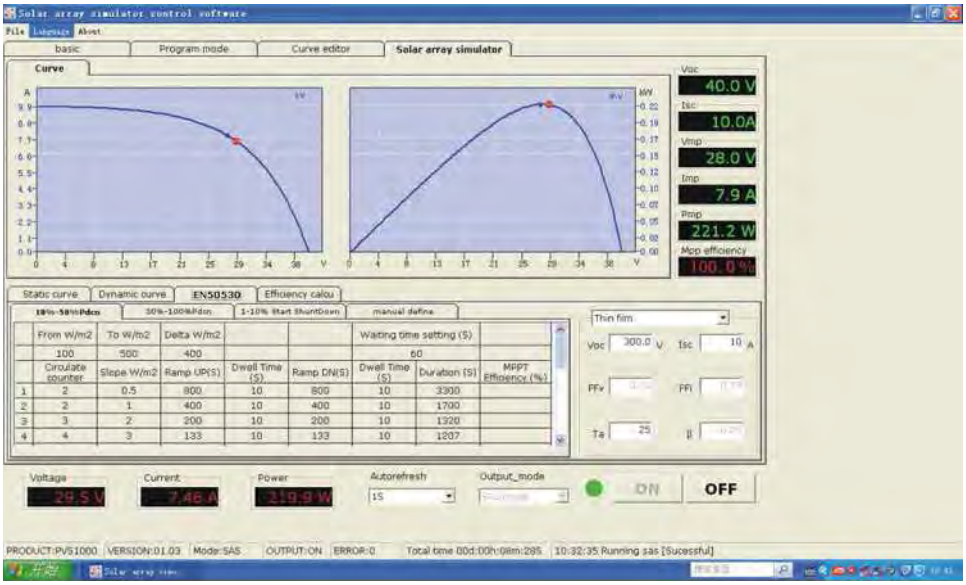
High-Frequency High Conversion Rate	Anti-Islanding Protect	Input /output is fully isolated to protect the electrical safety	Multiple parallel stacking
Power Line Communications	IP65 WaterProof	Intelligent Monitoring Systems	Smaller Size & Lighter Weight
The Leading Patent Technology	Flexible Installation	Simplify maintenance (user serviceable)	Installation and maintenance costs low

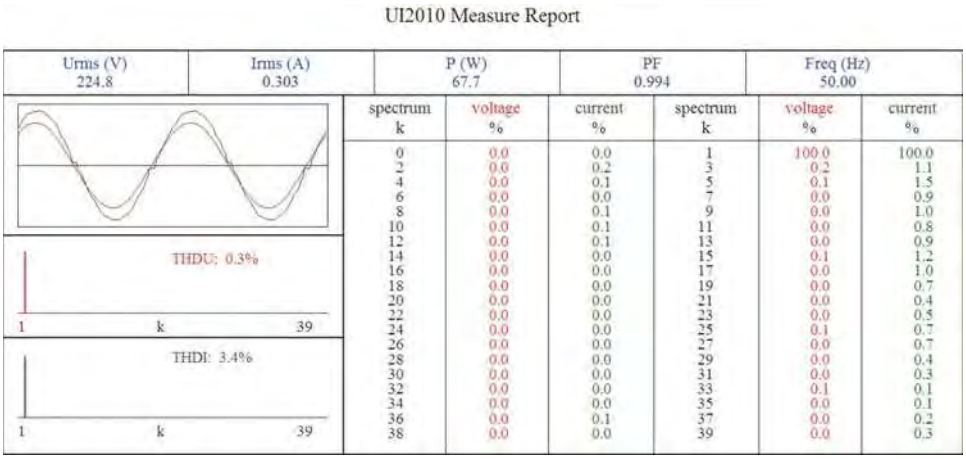
High Efficiency & Best Cost-Effectiveness



Intelligent MPPT & Weak Light Tracking Algorithm



Met The Grid Products Certification Standard



spectrum k	voltage %	current %	spectrum k	voltage %	current %
0	0.0	0.0	1	100.0	100.0
2	0.0	0.2	3	0.2	1.1
4	0.0	0.1	5	0.1	1.5
6	0.0	0.0	7	0.0	0.9
8	0.0	0.1	9	0.0	1.0
10	0.0	0.1	11	0.0	0.8
12	0.0	0.1	13	0.0	0.9
14	0.0	0.0	15	0.1	1.2
16	0.0	0.0	17	0.0	1.0
18	0.0	0.0	19	0.0	0.7
20	0.0	0.0	21	0.0	0.4
22	0.0	0.0	23	0.0	0.5
24	0.0	0.0	25	0.1	0.7
26	0.0	0.0	27	0.0	0.7
28	0.0	0.0	29	0.0	0.4
30	0.0	0.0	31	0.0	0.3
32	0.0	0.0	33	0.1	0.1
34	0.0	0.0	35	0.0	0.1
36	0.0	0.1	37	0.0	0.2
38	0.0	0.0	39	0.0	0.3

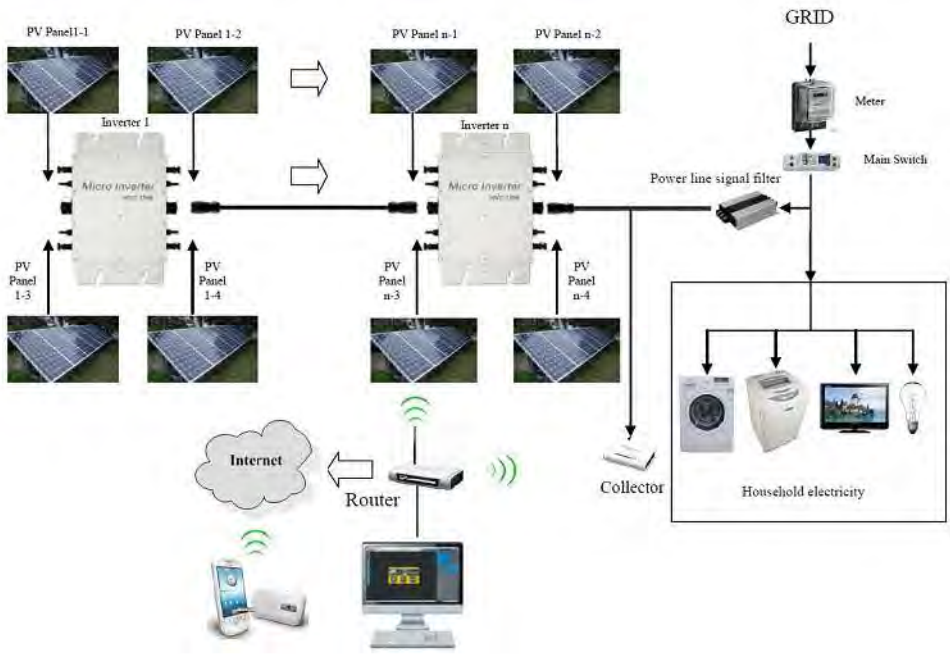
Product Parameters/Details

Input Data	**GELA KD-WVC1200-120VAC/230VAC**
Recommended input power	1200Watt
Recommend the use of PV modules	4*300W/Vmp>34V/Voc<50V
Maximum input DC voltage	50V
Peak power tracking voltage	25-40V
Operating Voltage Range	17-50V
Min / Max start voltage	22-50V
Maximum DC short current	80A
Maximum Input Current	54.4A

Output Data	**@120VAC**	**@230VAC**
Peak power output	1200Watt	1200Watt
Rated output power	1150Watt	1150Watt
Rated output current	9.58A	5A
Rated voltage range	80-160VAC	180-260VAC
Rated frequency range	57-62.5Hz	47-52.5Hz
Power factor	>98%	>98%
Maximum units per branch circuit	3PCS(Single-phase)	5PCS(Single-phase)
Output Efficiency	**@120VAC**	**@230VAC**
Static MPPT efficiency	99.5%	99.5%
Maximum output efficiency	92%	92%
Night time power consumption	<50mW Max	<70mW Max

THDI	<5%	<5%
Exterior		
Ambient temperature	-40°C to +60°C	
Operating temperature range (inverter inside)	-40°C to +82°C	
Dimensions (WxHxD)	370mm*305mm*38mm	
Weight	2.85kg	
Waterproof Rating	IP65	
Cooling	Self-cooling	
Feature		
Communication Mode	Power Line	
Power transmission mode	Reverse transfer, load priority	
Monitoring System	Lifetime free	
Electromagnetic compatibility	EN50081.part1EN50082.part1	
Grid disturbance	EN61000-3-2 Safety EN62109	
Grid detection	DIN VDE 1026 UL1741	
Certificate	CEC,CE National patent technology	

System Block Diagram & Application



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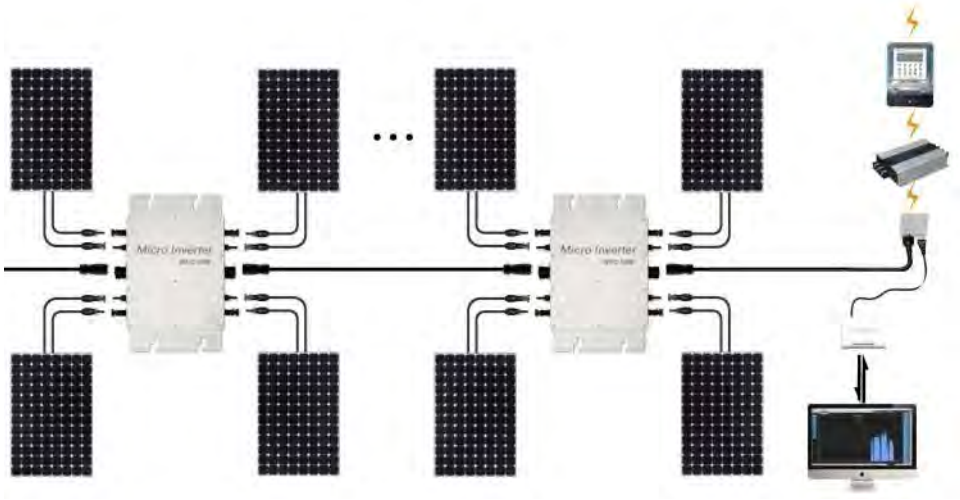

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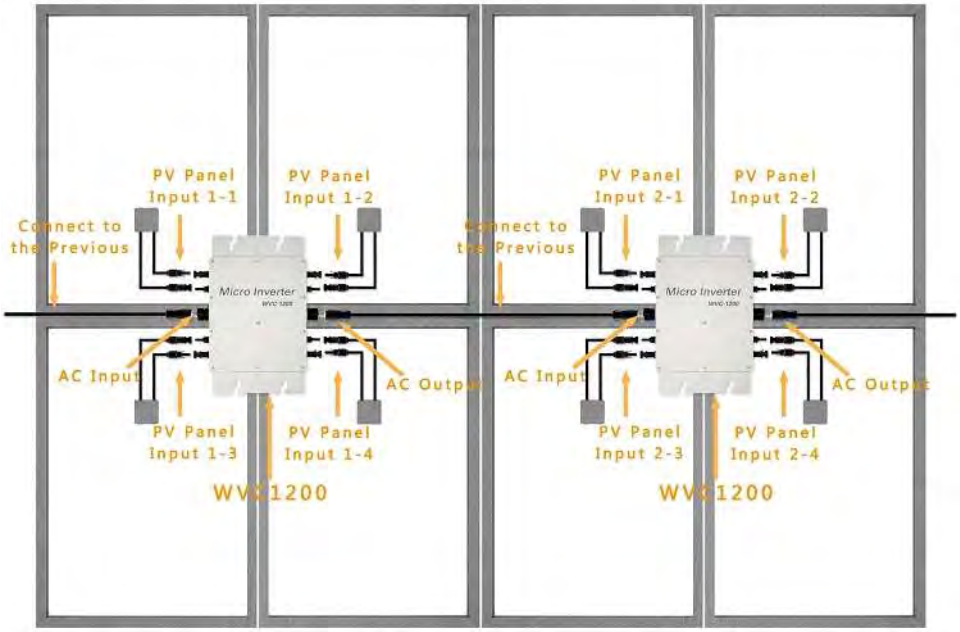

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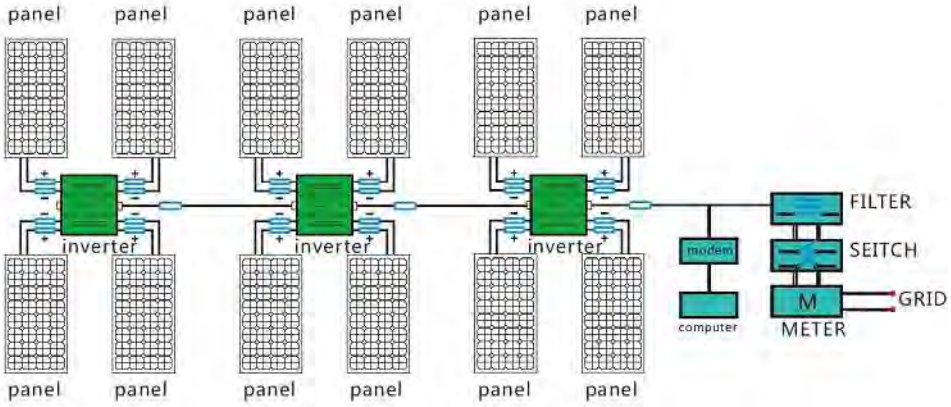
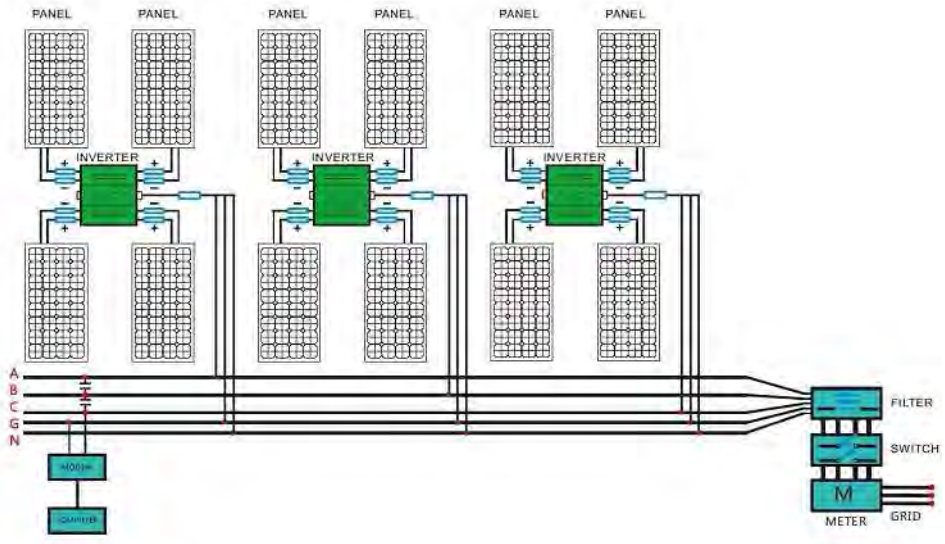


Single-Phase



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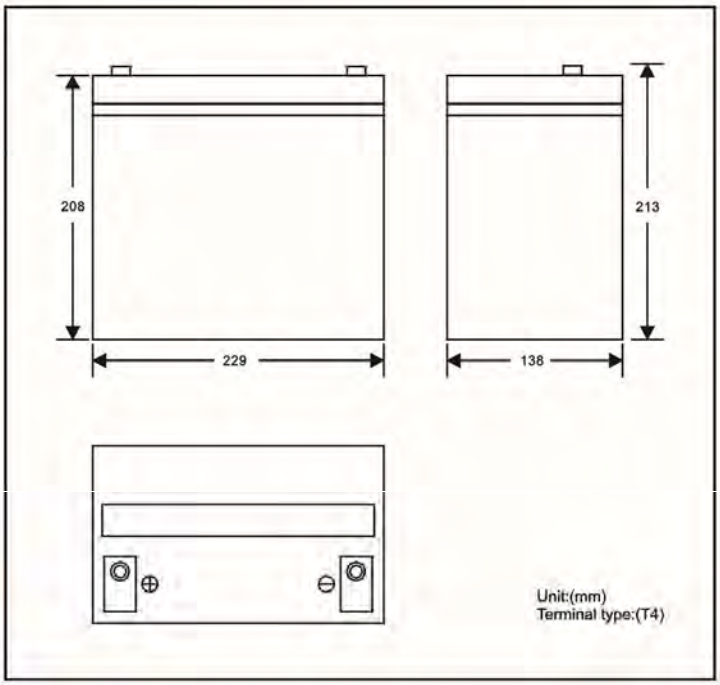


■ Specifications

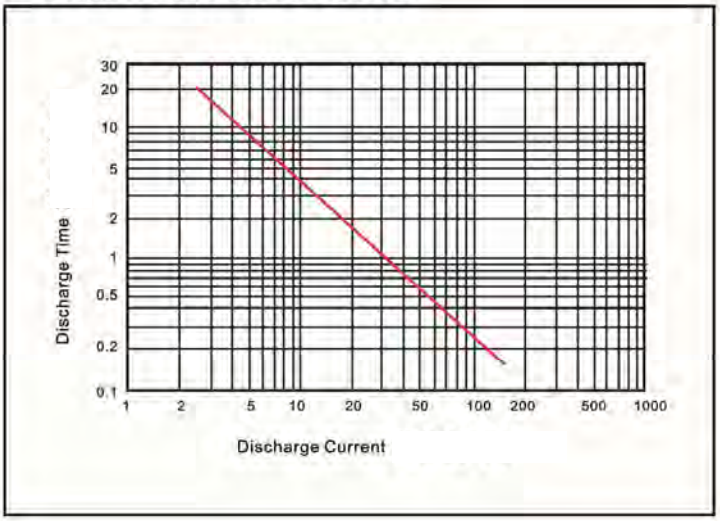
GELA	OT55-12	
Nominal Voltage		12V
Rated Capacity (20 hours rate)		55.0Ah
Dimension (±2mm)	Total Height (with terminals)	222mm
	Length Width Height	229mm 138mm 222mm
Weight (Approx)		16.60Kg

■ Characteristics

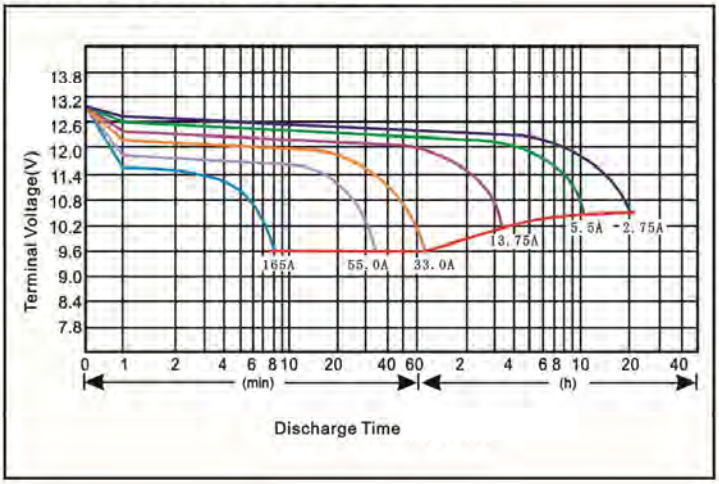
Capacity (25°C)	20 hours rate	(2.75A)	55Ah
Discharge Current Testing (25°C)	20 I_{20} rate 60 I_{20} rate	(55A, 27min) (16.5A, 7min)	35min 8min
Internal Rasistance	Full Charged Battery 25°C 25°C		6mΩ
Capacity Affected By Temperature (20 hours rate)	40°C 25°C 0°C -15°C		102% 100% 85% 62%
Residual Capacity (25°C) (25°C)	Capacity After 3 Months Storage Capacity After 6 Months Storage Capacity After 12 Months Storage		91% 82% 64%
Cycle (Above 300 Time)	Discharge 2hrs at 13.75A Current Charge 6hrs at 5.5A Current (25°C)		
Charge (Constant Voltage) Cycle (25°C)	Initial Charging Current Less Than 16.5A; Voltage 14.5~14.9V		
Charge (Constant Voltage) Float (25°C)	Charge Voltage 13.6~13.8V		

★ The above are average and date obtained from the first 3 charge/discharge cycles. These are not minimum values.

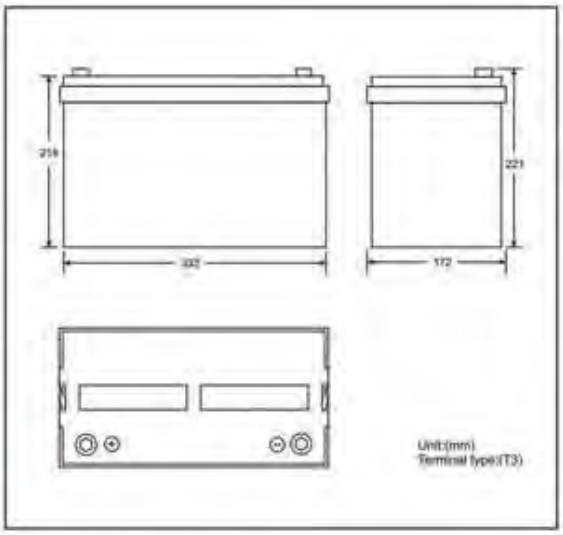
■ Discharge Current & Duration Time



■ Discharge Current 25°C



greenenergy latin america



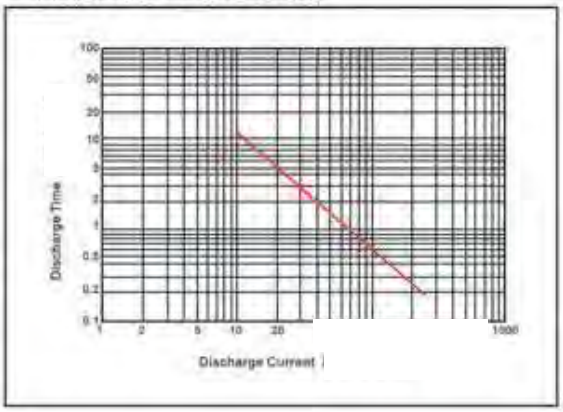
Specifications

GELA OT 100-12A		
Nominal Voltage		12V
Rated Capacity (10 hours rate)		100Ah
Dimension (±2mm)	Total Height (with terminals)	221mm
	Length Width Height	333mm 172mm 218mm
Weight (Approx)		31.3Kg

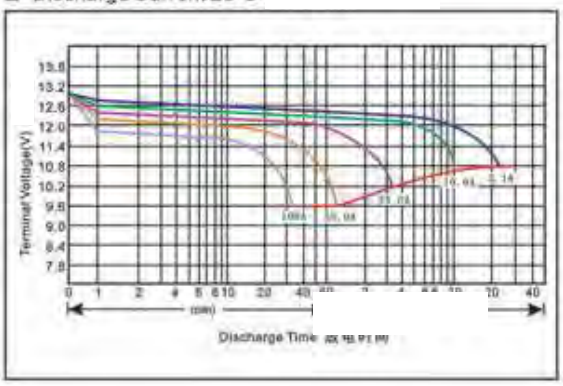
Characteristics

Capacity (25°C)	10 hours rate (10A) 3 hours rate 25A) 1 hours rate 55A)	100Ah 78Ah 60Ah
Internal Resistance	Full Charged Battery 25°C	3.5mΩ
Capacity Affected	40°C 25°C 0°C -15°C	102% 100% 85% 62%
Residual Capacity (25°C)	Capacity After 3 Months Storage Capacity After 6 Months Storage Capacity After 12 Months Storage	91% 82% 64%
Float Service Life (Above 3 Years)	Voltage 13.6~13.8V/12V (25°C)	
Design Life	Above 5 Years	
Charge (Constant)	Initial Charging Current Less Than 30A;	

★ The above are average and date obtained from the first 3



Discharge Current 25°C



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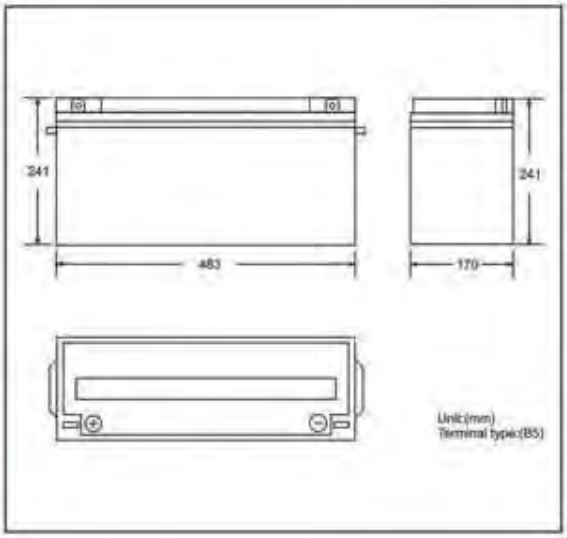


Specifications

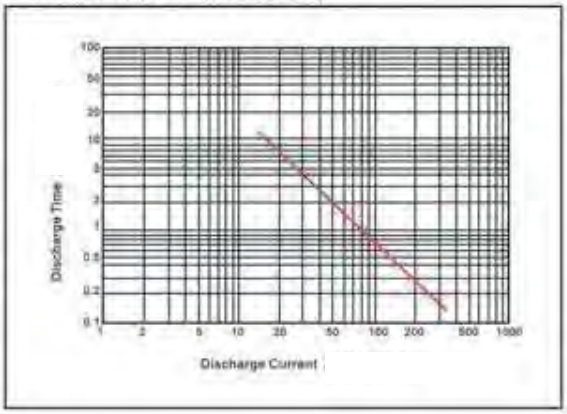
GELA OT 150-12		
Nominal Voltage		12V
Rated Capacity (10 hours rate)		150Ah
Dimension (±2mm)	Total Height (with	241mm
	Length Width Height	483mm 170mm 241mm
Weight (Approx)		43.9Kg

Characteristics

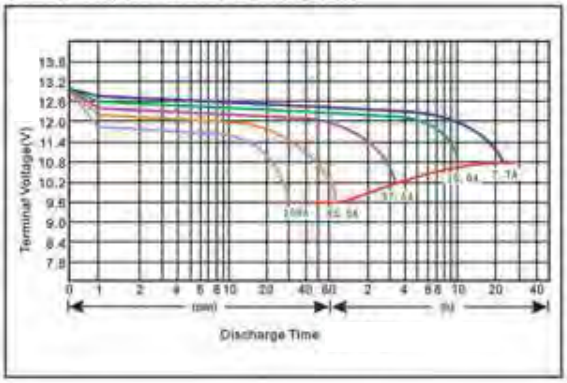
Capacity (25°C)	10 hours rate (15A) 3 hours rate (37.5A) 1 hours rate (82.5A)	150Ah 113Ah 86Ah
Internal Resistance	Full Charged Battery 25°C 25°C	3.3mΩ
Capacity Affected By Temperature (10 hours rate)	40°C 25°C 0°C -15°C	102% 100% 85% 62%
Residual Capacity (25°C)	Capacity After 3 Months Storage Capacity After 6 Months Storage Capacity After 12 Months Storage	91% 82% 64%
Float Service Life (Above 3 Years)	Voltage 13.6~13.8V/12V (25°C)	
Design Life	Above 5 Years	
Charge (Constant Voltage 25°C)	Initial Charging Current Less Than 45A; Voltage 14.5~14.9V	

★ The above are average and date obtained from the first 3 charge/discharge cycles. These are not minimum values.

Discharge Current & Duration Time



Discharge Current 25°C



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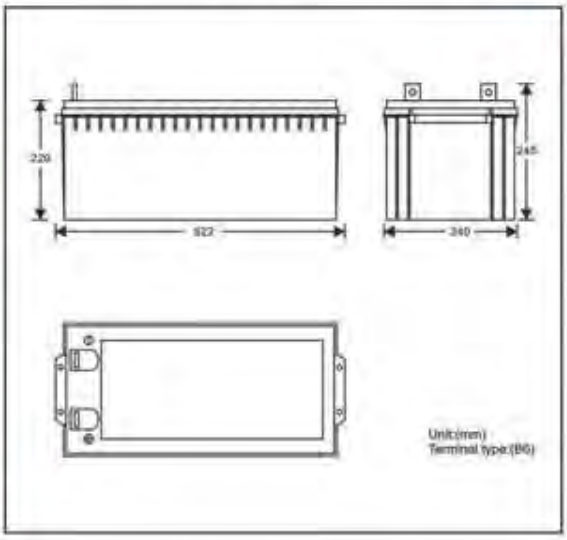


■ Specifications

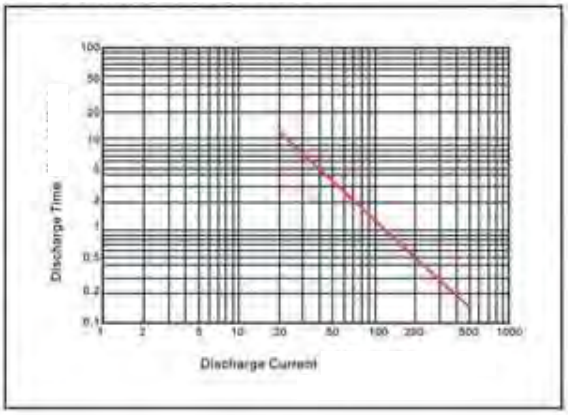
GELA OT 200-12		
Nominal Voltage		12V
Rated Capacity (10 hours rate)		200Ah
Dimension (±2mm)	Total Height (with terminals)	245mm
	Length Width Height	522mm 240mm 220mm
Weight (Approx)		60.8Kg

■ Characteristics

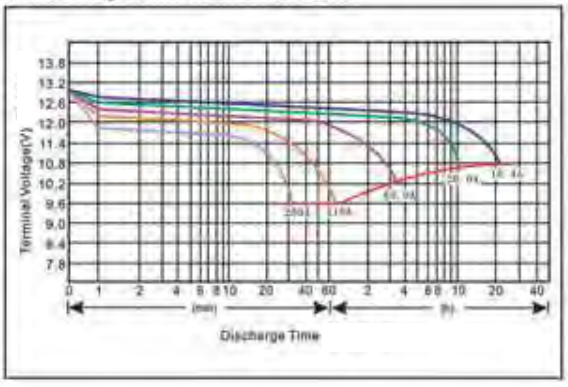
Capacity	10 hours rate (20A) 3 hours rate (50A) 1 hours rate (110A)	200Ah 155Ah 120Ah
Internal Resistance	Full Charged Battery 25°C	2.6mΩ
Capacity Affected By Temperature (10 hours rate)	40°C 25°C 0°C -15°C	102% 100% 85% 62%
Residual Capacity (25°C)	Capacity After 3 Months Storage Capacity After 6 Months Storage Capacity After 12 Months Storage	91% 82% 64%
Float Service Life (Above 3 Years)	Voltage 13.6~13.8V/12V (25°C) 13.6~13.8/12V (25°C)	
Design Life	Above 5 Years	
Charge (Constant Voltage 25°C)	Initial Charging Current Less Than 60A; Voltage 14.5~14.9V	

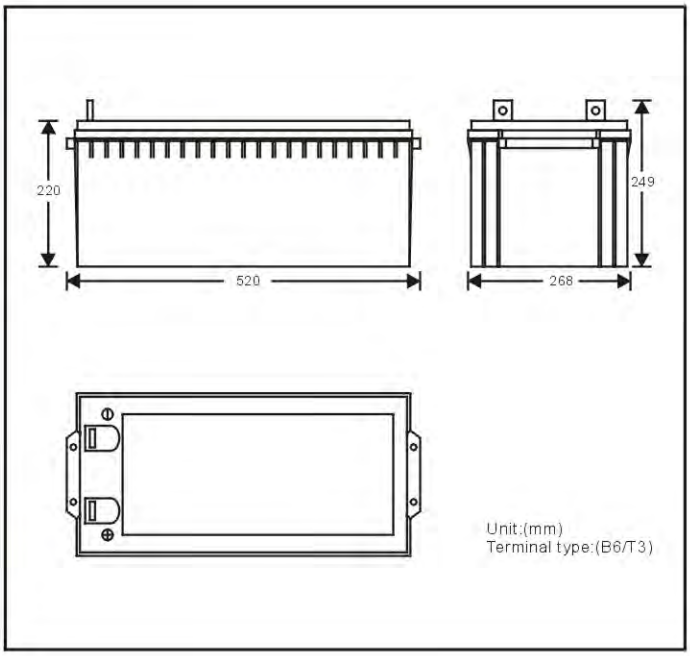
★ The above are average and date obtained from the first 3 charge/discharge cycles. These are not minimum values.

■ Discharge Current & Duration Time



■ Discharge Current 25°C





■ Specifications :

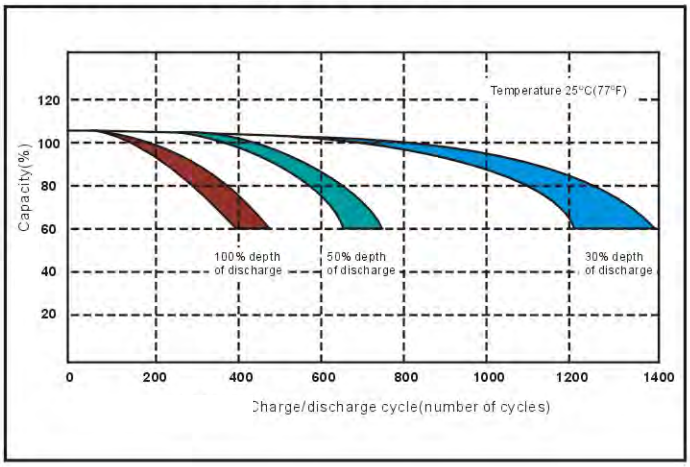
GELA OT 250-12L		
Nominal Voltage		12V
Rated Capacity (10 hours rate)		250Ah
Dimension (±2mm) 尺寸 (±2mm)	Total Height (with terminals)	249mm
	Length Width Height	520mm 268mm 220mm
Weight (Approx)		71.2Kg

■ Characteristics

Capacity (25°C)	10 hours rate (25A) 3 hours rate 62.5A) 1 hours rate 137A)	250Ah 193Ah 150Ah
Internal Rasistance	Full Charged Battery 25°C 25°C	2.6mΩ
Capacity Affected By Temperature (10 hours rate)	40°C 25°C 0°C -15°C	102% 100% 85% 62%
Residual Capacity (25°C)	Capacity After 3 Months Storage Capacity After 6 Months Storage Capacity After 12 Months Storage	91% 82% 64%
Float Service Life (Above 3 Years)	Voltage 13.6~13.8V/12V (25°C)	
Design Life	Above 5 Years	
Charge (Constant Voltage 25°C)	Initial Charging Current Less Than 75A; Voltage 14.5~14.9V	

★ The above are average and date obtained from the first 3 charge/discharge cycles. These are not minimum values.

Cycle Service Life



■ Discharge Current 25°C